6

SERVICE MANUAL

MW/LW/FM STEREO
CD MUSIC CENTER WITH
REMOTE CONTROL SYSTEM

MC-75U

MC-71U

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SPECIFICATIONS

AMPLIFIER SECTION

Output power	: 30W/ch THD 10%
T.H.D	: 0.2%
Frequency Response	: 50Hz-30kHz
S/N Ratio (IHF, A)	
Phono	: 65dB
Others	: 80dB
Graphic Equalizer	
100,330,1K,3.3K,10kHz	: ± 10dB

FM TUNER SECTION

Tuning Range	: 87.5-108 MHz
Usable Sensitivity(S/N30dB)	: 20dB
Image Rejection	: 45dB
Distortion mono	: 0.25%
stereo	: 0.5%
Stereo Separation	: 30dB

MW TUNER SECTION

Tuning Range	: 522-1620kHz
Sensitivity(S/N 30dB)	: 55dB
Image Rejection	: 35dB
Distortion	: 1%

LW TUNER SECTION

Tuning Range	: 153-279kHz
Usable sensitivity(S/N30dB)	: 65dB

PHONO SECTION

Player system	: Belt Driver Half-Automatic Turntable
Phono motor	: DC servo motor
Turntable size	: 28 cm(11″)
Turntable speeds	: 33-1/3rpm, 45rpm
Cartridge type	: Magnetic

CASSETTE DECK SECTION

Frequency Response (Rec/playback)	
Normal	: 50Hz-12kHz
CrO_2	: 50Hz-13kHz
S/N Ratio (CCIR/ARM)	
Wow and flutter	: 0.35% (WRMS)
Recording and Erase System	AC

REMOTE CONTROL TRANSMITTER

Battery	: 3V (1.5Vx2 "AAA" type)
Dimensions(WxHxD)	: 62x190x20

COMPACT DISC PLAYER SECTION

System	Compact disc digital audio system
Disc	Compact disc
Laser	Semiconductor laser (λ=780nm)
Spindle speed	200 r.p.m to 500 r.p.m (CLV)
Total harmonic distortion	Less than 0.19% (1kHz)
Dynamic range	More than 85dB
Channel separation	More than 80dB
Wow and flutter	Below measurable limit
Outputs	Line output 2V (0 dB)
Phones outputs	20mW at 32ohms
Scan velocity	1.5-2.0 m/sec
Number of channels	2 Ch
Frequency response	20-20,000 Hz± 2dB

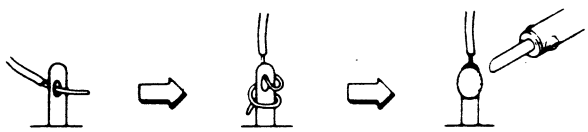
GENERAL

Power consumption	: 150W
Power supply	: 220/50Hz

SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ (*) symbol parts are critical for safety. Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples : RF converters, tuner units, antenna selectswitches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially :
   1) Wires covered with PVC tubing
   2) Double insulated wires.
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts.
   Note especially :
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

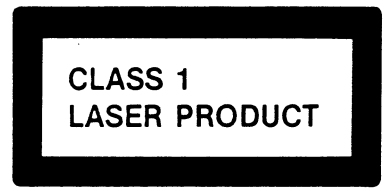
SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakagecurrent or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.
The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal-input/output connectors, etc.) and the earth ground through a resister of 1500 ohms paralleled with a 0.15 μF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5mA rms AC.
The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch(if included) "ON". The resistance should be more than 2.2 Mohms.

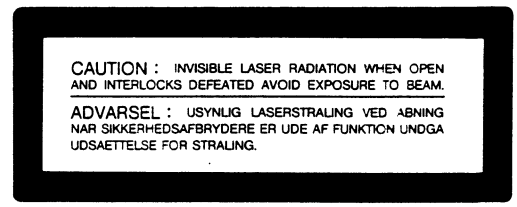
PRECAUTIONS IN REPAIRING

When repairing or adjusting the unit, please note the following points.

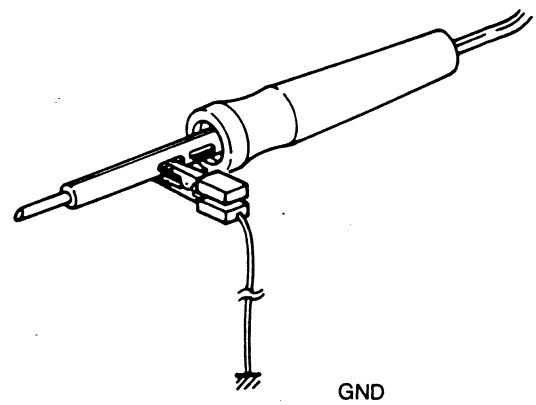
1. Do not put excessive pressure on the mechanical part (operation part), including the pick-up block, as extremely high mechanical precision is required in these parts
2. When the mechanical part or P.C. Board is removed for repair or adjustment, make sure that there are no metal objects in the narrow gap between the P.C. Board or the mecha parts and the base.
3. The micro-computer and the CD signal processing IC's can be damaged by static electricity or leakage from a soldering iron during repairing. While soldering, please take the precautions against leakage as in the illustration below.
4. Do not loosen any screws in the pick-up block. When handling the Pick-up block, please refer to the points to NOTE when replacing the pick-up block.
5. Keep safety from hazardous invisible laser radiation, DO NOT watch the laser beam (objective lens) directly.
6. Models for the some countries, laser warning labels are affixed on the unit and inside of the unit, as shown below. Read it carefully for your safety, when replacing or adjusting the unit.



A label affixed on the Rear chassis of the unit.


CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRALING VED ABNING NAR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGA UDSAETTELSE FOR STRALING.

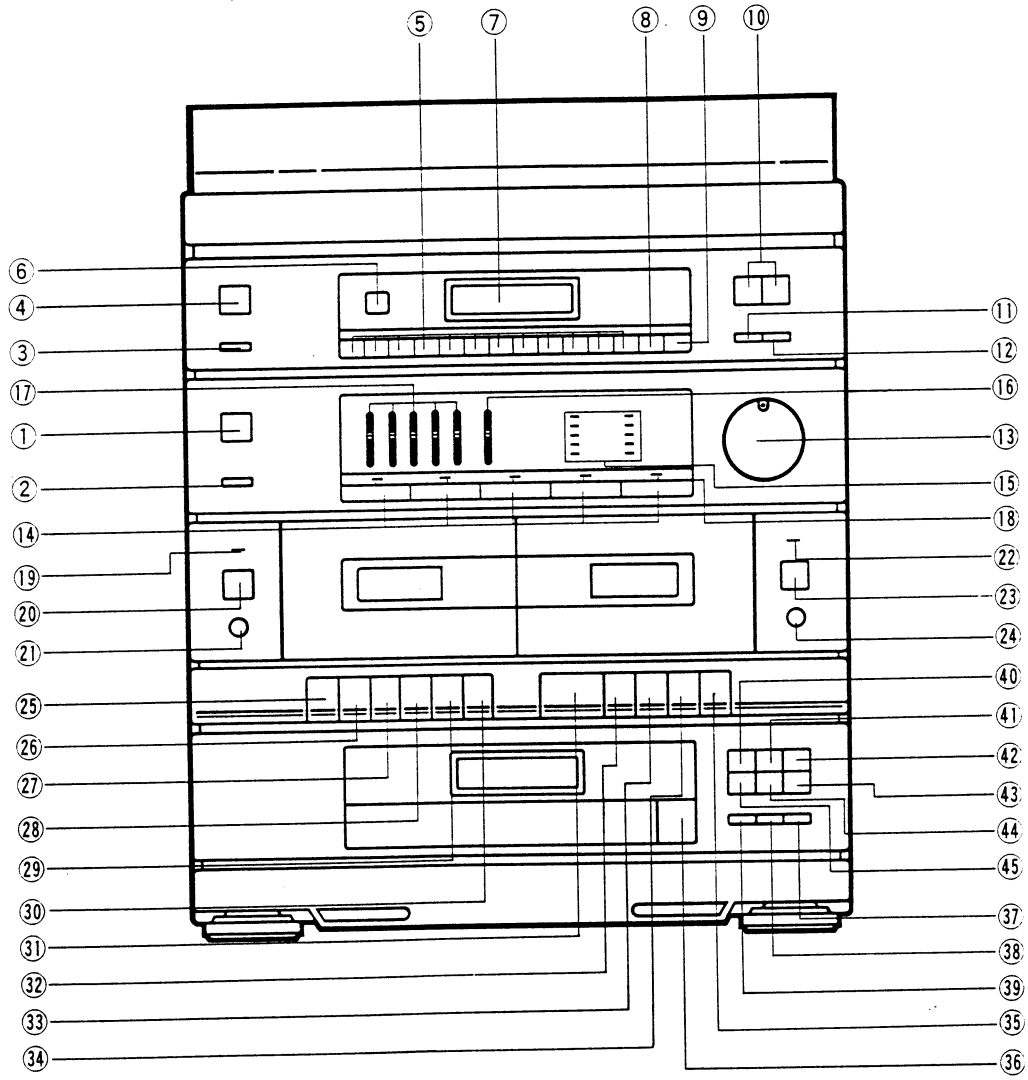
A label affixed on the Disc clamper inside of the unit.



GND

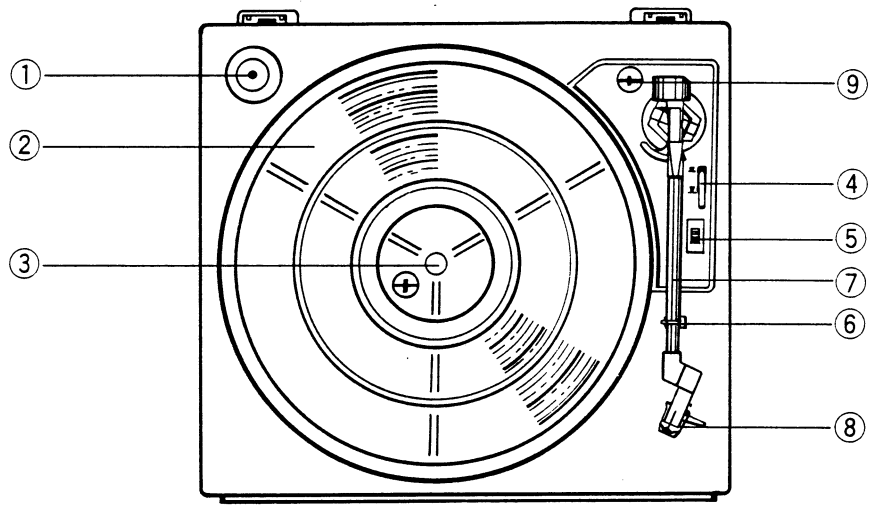
CONTROLS

FRONT



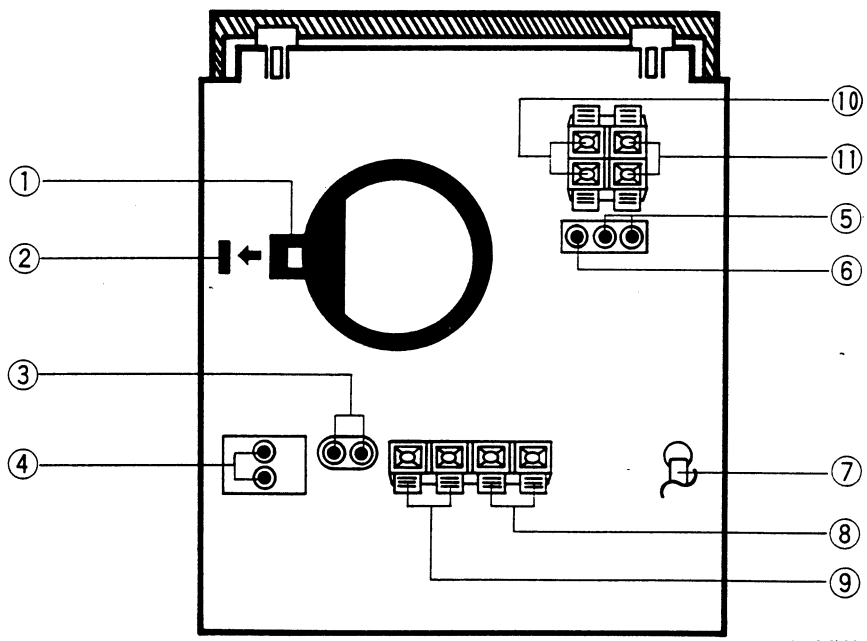
1. POWER SWITCH
2. SURROUND SPEKAER ON/OFF SWITCH
3. MUTE BUTTON
4. BAND BUTTON/TIMER CLEAR
5. PRESET MEMORY BUTTONS
6. REMOTE CONTROL SENSOR
7. DIGITAL DISPLAY
8. MEMORY, CLOCK ADJ BUTTON
9. AUTO/MANUAL BUTTON
10. UP/MIN ADJ, DOWN/HOUR ADJ
11. DISPLAY BUTTON
12. MONO/STEREO BUTTON(FM MODE)
13. MAIN VOLUME
14. FUNCTION SELECTOR BUTTONS
15. POWER LEVEL METER
16. BALANCE VOLUME
17. GRAPHIC EQUALIZER(5 BAND)
18. FUNCTION INDICATORS
19. RECORDING INDICATOR
20. TAPE SELECTOR SWITCH
21. HEADPHONES JACK (6.3φ)
22. HIGH SPEED DUBBING INDICATOR
23. HIGH SPEED DUBBING SWITCH
24. MIC JACK
25. RECORDING BUTTON(●)
26. PLAY BUTTON(▶)
27. REWIND BUTTON(◀◀)
28. FAST FORWARD BUTTON(▶▶)
29. STOP/EJECT BUTTON(■/▲)
30. PAUSE BUTTON(▮▮)
31. PLAYBACK BUTTON(▶)
32. REWIND BUTTON(◀◀)
33. FAST FORWARD BUTTON(▶▶)
34. STOP/EJECT BUTTON(■/▲)
35. PAUSE BUTTON(▮▮)
36. OPEN/CLOSE BUTTON FOR CDP(▲)
37. DISPLAY (TIME SEL.) BUTTON FOR CDP
38. PROGRAM BUTTON
39. REPEAT BUTTON
40,41. SEARCH BUTTONS(◀◀, ▶▶)
42. PLAY/PAUSE BUTTON(▶/▮▮)
43. STOP BUTTON(■)
44,45. SKIP BUTTONS(I◀◀, ▶▶I)

TURN TABLE



1. 45 rpm Adaptor
2. Turntable
3. Spindle
4. Cueing Lever
5. Speed Selector
6. Pick-up Clip
7. Pick-up Arm
8. Head Shell
9. Transit Screw

BACK



1. MW/LW LOOP ANTENNA CSUPP
2. MW/LW LOOP ANTENNA HOLDER
3. SURROUND SPEAKER JACK
4. TV/VCR INPUT TERMINAL
5. MW/LW ANTENNA
6. FM 75Ω ANTENNA
7. AC CORD
8,9. SPEAKER JACK ("L", "R")
10. FM ANTENNA
11. MW/LW ANTENNA

ADJUSTMENT OF TUNER

CONTROL POSITIONS AND EQUIPMENT USED

- MW/LW and FM signal generator (MW,LW and FM-SG)
- Stereo modulator.
- Distortion analyser.
- Oscilloscope.
- AF Oscillator.
- AC and DC electronic voltmeter (EVM).
- Frequency counter.
- Chock coil(100uH)
- Resistor(100k).

ADJUSTMENT OF MW VCO

1. Connect the test equipment to the set shown as drawing 1.
2. Set the band switch of this set to MW.
3. Set the receipt frequency to 1602kHz.
4. Adjust T406 to make DC 9V.

ADJUSTMENT OF FM VCO

1. Connect the test equipment to the set shown as drawing 1.
2. Set the band switch of this set to FM.
3. Set the receipt frequency to 108,0 MHz.
4. Check whether the test equipment show DC 8V(In case of using tuner pack).

ADJUSTMENT OF LW VCO

1. Connect the test equipment to the set shown as drawing 1.
2. Set the band switch of this set to LW.
3. Set the receipt frequency to 153kHz.
4. Adjust T405 to make DC 5V

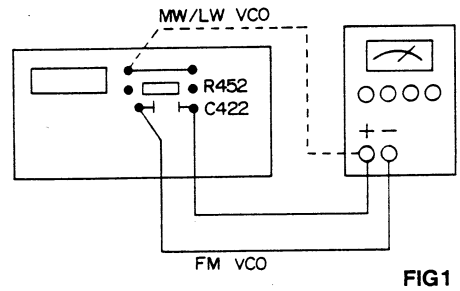


FIG1

ADJUSTMENT OF MW RF

1. Connect the test equipment to the set shown as drawing 2.
2. Set the band switch of this set to MW.
3. Modulate the receipt frequency and SSG frequency of the set to 603kHz.
4. Make the output signal maximum by adjusting T401.
5. Modulate the receipt frequency and SSG frequency of the set to 1404kHz.
6. Make the output signal maximum by adjusting VC402.
7. Make the output signal maximum by adjusting T411.
8. Repeat two or three times the above point ③ ④ ⑤ ⑥.

ADJUSTMENT OF LW RF

1. Set the band switch of this set to LW.
2. Set the receipt frequency to 153kHz.
3. Make the output signal maximum by adjusting T402.
4. Set the receipt frequency to 279kHz.
5. Make the output signal maximum by adjusting VC403.
6. Repeat two or three times above point ② ③ ④ ⑤.

MW/LW SIGNAL GENERATOR CONDITION

Modulation 30%
Modulation frequency 400Hz
Output level ..... 86d B

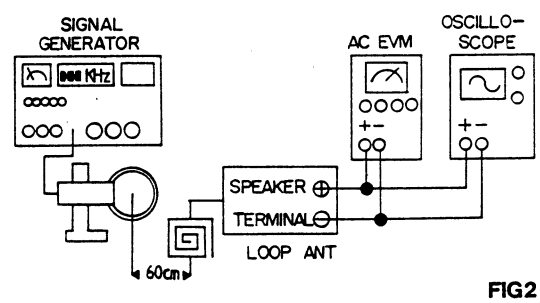


FIG2

ADJUSTMENT OF FM RF

1. Connect the test equipment to the set shown as drawing 3.
2. Set the band switch of this set to FM.
3. Modulate the receipt frequency and SSG frequency of the set to 90.1 MHz (Reduce the ATT of SSG to come out the noise with output signal together).
4. Make the output signal maximum by adjusting L401.
5. Modulate the receipt frequency and SSG frequency of the set to 106.1 MHz.
6. Make the output signal maximum by adjusting VC401.
7. Repeat two or three times the above point ③④⑤⑥.
8. In case to use tuner pack, only check above point from ① to ⑥.

FM SIGNAL GENERATOR CONDITION

Modulation ····· 100%
Modulation frequency ····· 400Hz
Output level ····· 66dB

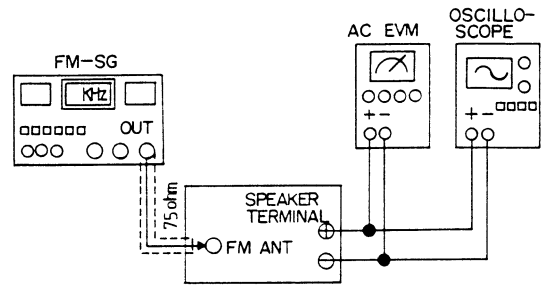


FIG3

T · H · D ADJUSTMENT OF FM MONO

1. Connect the test equipment to the set shown as drawing 4.
2. Set the band switch of this set to FM.
3. Modulate the receipt frequency and SSG frequency of the set to 98.1 MHz.
4. Adjust the T409 and make "0" in the DC volt-meter (0 V± 30mV).
5. Make the T.H.D minimum by adjusting T410.
6. Repeat the points 4~5 four of five times.

Note : Only use the non-metallic adjustment bar.

FM SIGNAL GENERATOR CONDITION

Modulation ····· 100%
Modulation frequency ····· 400Hz
Output level ····· 66dB

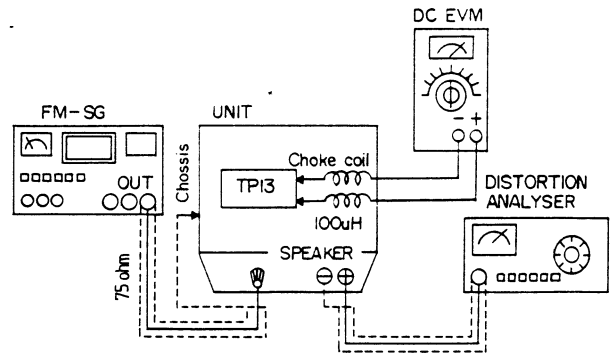


FIG4

THE ADJUSTMENT OF FM STEREO VCO

1. Connect the test equipment to the set shown as drawing 5.
2. Set the band switch to FM and MODE switch to STEREO.
3. Modulate the receipt frequency and SSG frequency of the set to 98.1 MHz.
4. Make the STEREO maximum seperate by adjusting SV 401.

Note : Check whether STEREO is displayed in LCD.

FM SIGNAL GENERATOR CONDITION

Modulation ····· 0
Modulation frequency ····· 0
Output level ····· 66dB

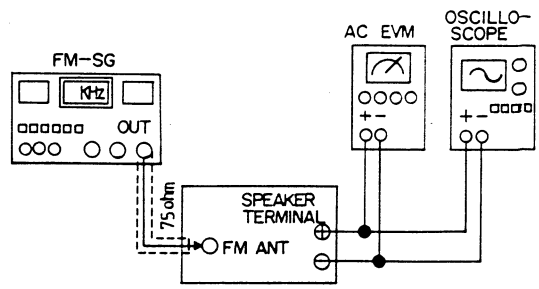
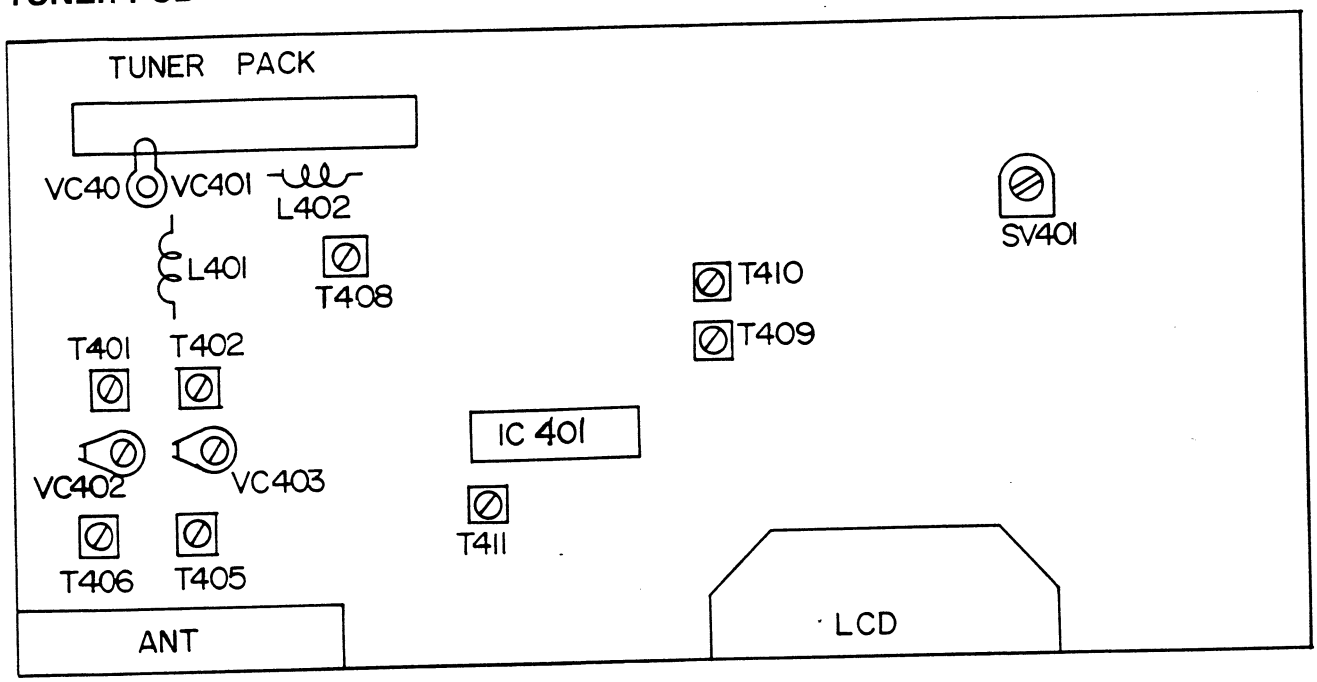


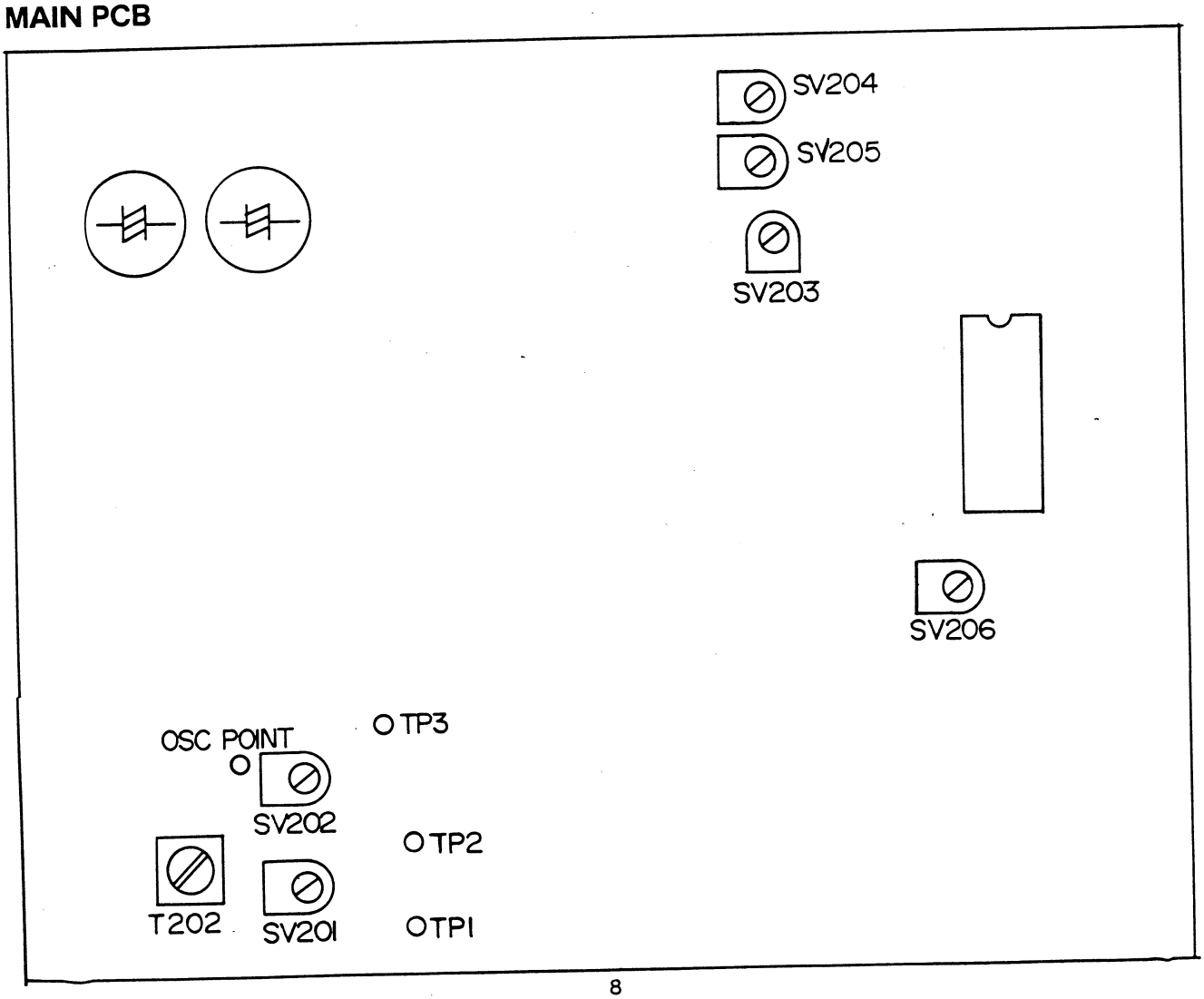
FIG5

ADJUSTMENT POINT

TUNER PCB



MAIN PCB



ADJUSTMENT OF CASSETTE

MEASUREMENT CONDITION :

- Make sure heads are clean.
- Make sure capstan and pressure roller are clean.

TEST TAPE :

- Head azimuth adjustment (10kHz,-10dB) : TCC-153
- Tape speed adjustment (3kHz, -10dB) : TCC-112
- Normal reference blank : TCC-103A

ADJUSTMENT OF HEAD AZIMUTH (TAPE 1, 2)

1. Connect the test equipment to the set shown as drawing 6.
2. Set the selector switch of this set to TAPE.
3. Adjust the AZIMUTH SCREW of head to make the output.
4. At this time, the LISSAJOUS wave should be shown as a straight line on the scope.
5. Paint the locking paint between screw and angle after adjustment.

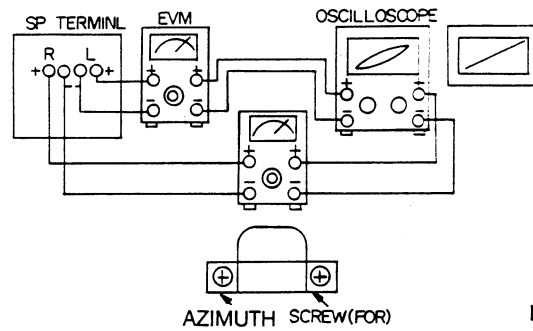


FIG6

ADJUSTMENT OF TAPE SPEED

1. Connect the test equipment to the set shown as drawing 7.
2. Set the selector switch of this set to TAPE.
3. Generate TCC-111(3kHz, -10dB) in the TAPE 1 and put the recording TAPE into the TAPE 2.
   And let it be in DUBBING position.
4. Push the high speed switch.
5. Adjust SV205 to be seen the frequency 6000Hz± 60Hz on the frequency counter.
6. Set the HI SPEED SW to the OFF position (NOR DUBBING MODE) and make 3000Hz± 30Hz by adjusting SV204.

Note : Adjust NOR. speed only after adjust the HI SPEED.

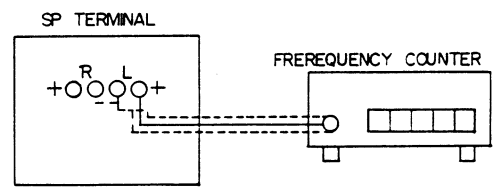


FIG7

ADJUSTMENT OF BIAS FREQUENCY

1. Connect the test equipment to the set shown as drawing 8.
2. Set the selector switch of this set to TAPE.
3. Put the CrO_2 TAPE(MTT-5561) in the DECK2 and set to REC MODE.
4. Set 106KHz by adjusting T202.

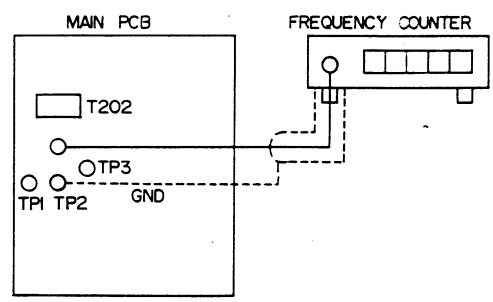


FIG8

ADJUSTMENT OF RECORD BIAS

1. Connect the test equipment to the set shown as drawing 9.
2. Set the selector switch to TAPE.
3. Put the CrO_2 TAPE in the DECK2 and set to REC MODE.
4. Adjust the VR41("L" CH) VR42("R" CH) and make it 7mV.
5. At this time check whether it is NOR 4mV by changing TAPE.

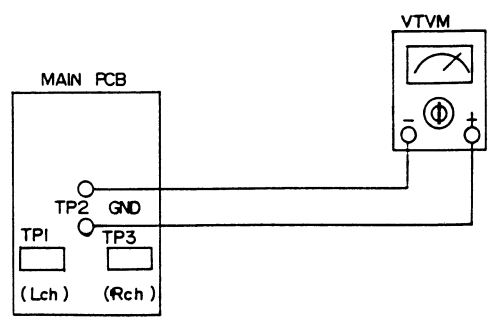


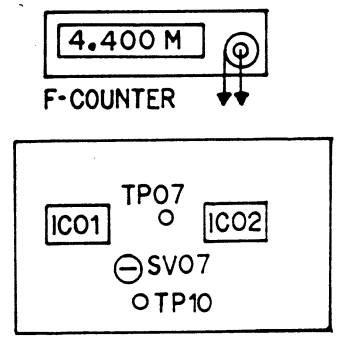
FIG9

ADJUSTMENT OF CD PART

* After adjust, setting to center position.

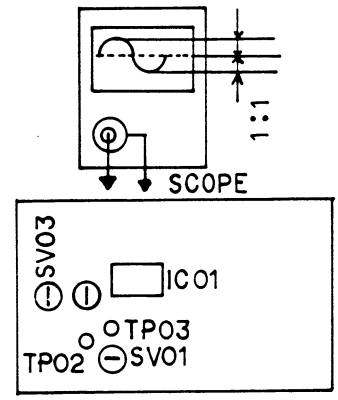
1. PLL ADJUSTMENT

- At the position to STOP.
- Connect the frequency counter (−) to TP 10.
- Connect the frequency counter (+) to TP 07.
- Adjust SV07 for 4.4 MHz ± 50(KHz)



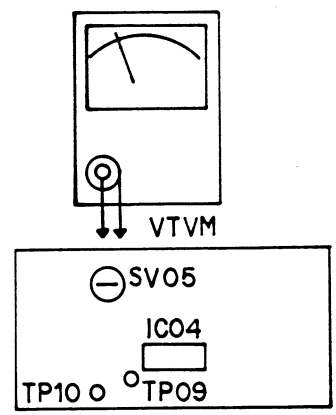
2. E/F BALANCE ADJUSTMENT

- At the position to PLAY.
- Turn to the SV02 MAX.
- Connect the oscilloscope (−) to TP02.
- Connect the oscilloscope (+) to TP03.
- Adjust SV01 so that center of TE signal displayed on the oscilloscope shall be 0(V) level.



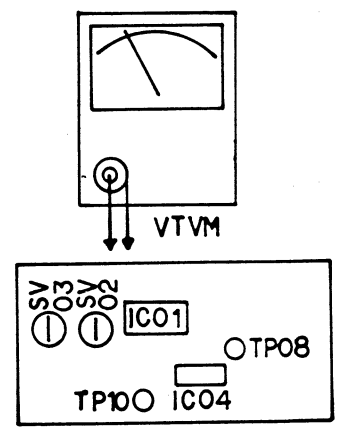
3. FOCUS GAIN ADJUSTMENT RETURN TO CENTER SV02

- At the position to PLAY.
- Connect the VTVM(−) to TP10.
- Connect the VTVM(+) to TP09.
- Adjust SV05 until monitor level at VTVM becomes 100mV±10mV.



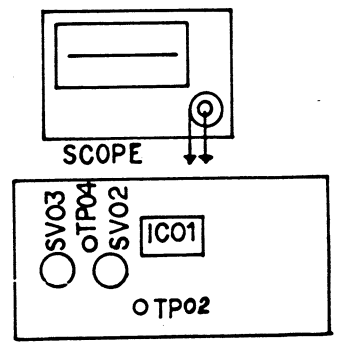
4. TRACKING GAIN ADJUSTMENT

- At the position to PLAY.
- Connect the VTVM (−) TP10.
- Connect the VTVM (+) TP08.
- Adjust SV02 until monitor level at VTVM becomes 120mV± 10mV.



5. TRACKING OFFSET ADJUSTMENT

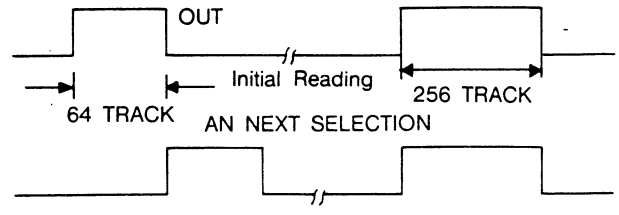
- At the position to STOP.
- Connect the oscilloscope (−) to TP02
- Connect the oscilloscope (+) to TP04.
- D.C level 0.1(V) to scope position.
- Adjust turn to SV03 0(V) level.



● SLIDE

(IC06)
FM + ㊶ OUTER DIRECTION

FM − ㊷ INNER DIRECTION



● FOCUS

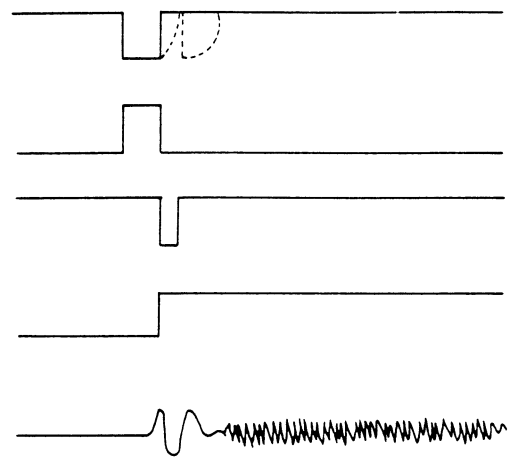
(IC02) ⑭ FST

⑬ FOCS

⑮ $\overline{\text{FZD}}$

(IC01) ㉗ DRF

㉛ FEAO

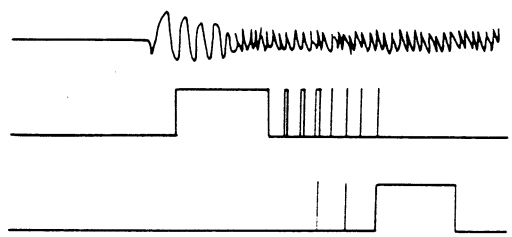


● DISC MOTOR (CLV)

(IC05) ⑩ FOCUS DRIVE

6 CLV+

3 CLV−



● TRACKING MODE(NORMAL)

(IC01) ㊻ TOFF

㊺ TGL

㊹ THLD

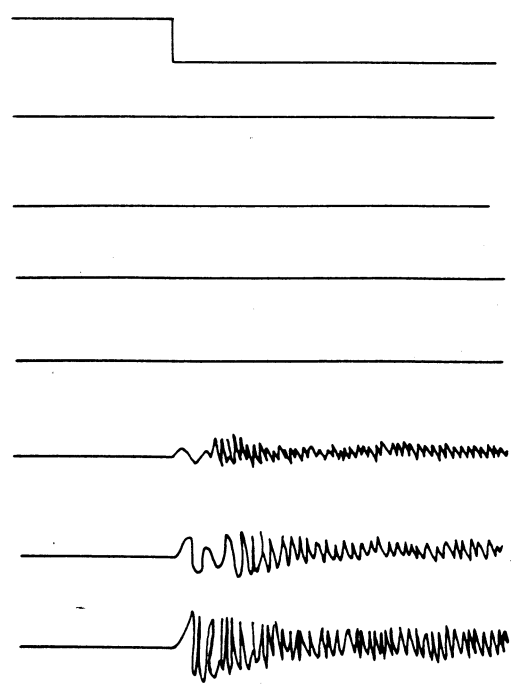
㊸ JP+

㊷ JP−

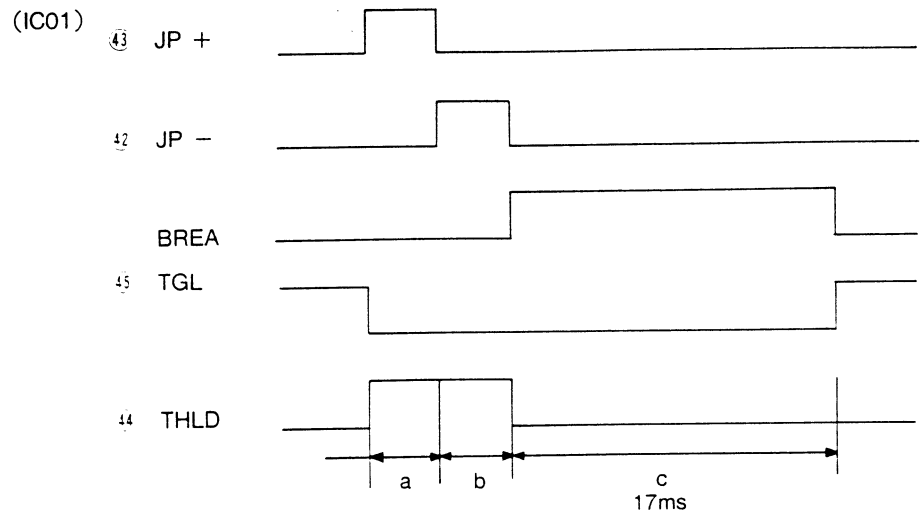
⑦ TEAO

⑮ TPAO

(IC04) ⑩ TRACKING DRIVE

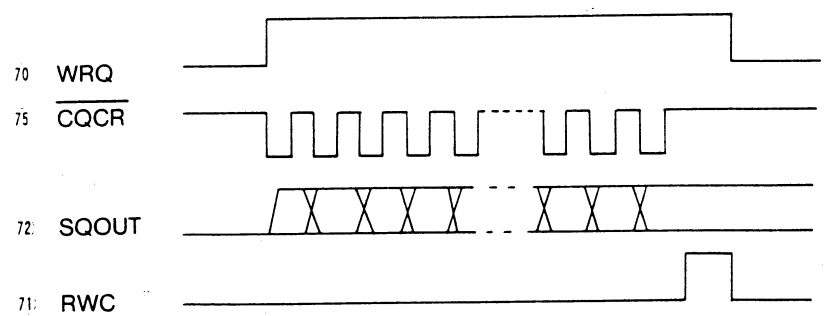


● TRACKING(At Selection)

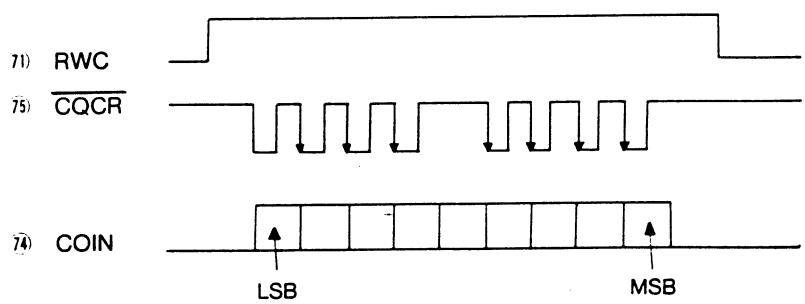


COMMAND	a	b	c
1 TRACK JUMP IN (OUT) #1	233μS	233μS	17mS
1 TRACK JUMP IN (OUT) #2	0.5 TRACK JUMP PERIOD	233μS	17mS
4 TRACK JUMP IN (OUT)	2 PERIOD	466μS	17mS
16 TRACK JUMP IN (OUT)	9 PERIOD	7 TRACK JUMP	17mS
64 TRACK JUMP IN (OUT)	36 PERIOD	28 TRACK JUMP	17mS
256 TRACK JUMP IN (OUT)	256 TRACK PASSAGE THLD→"H" STATE		

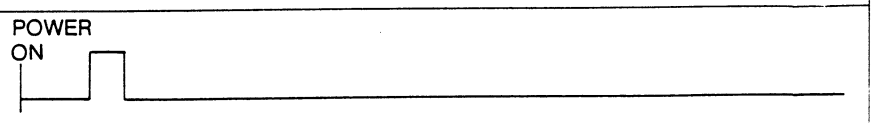
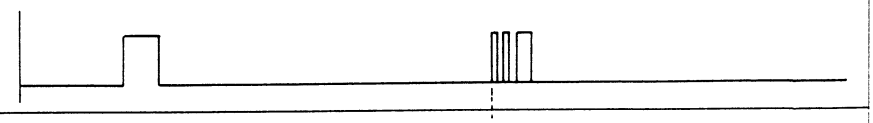
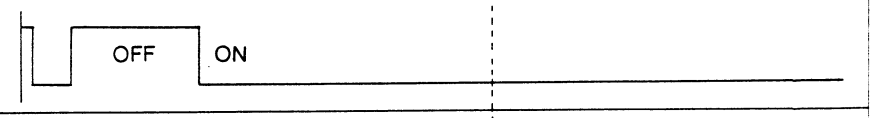
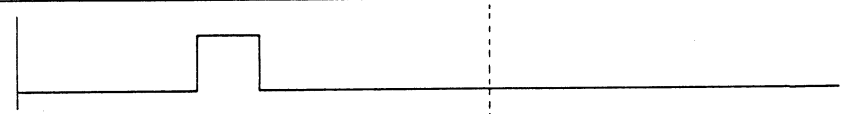
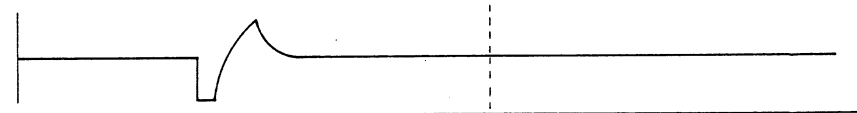
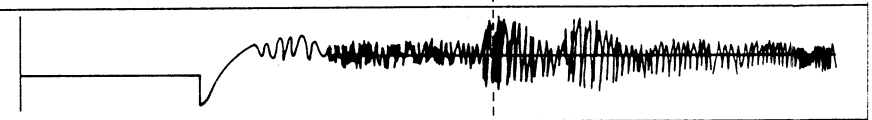
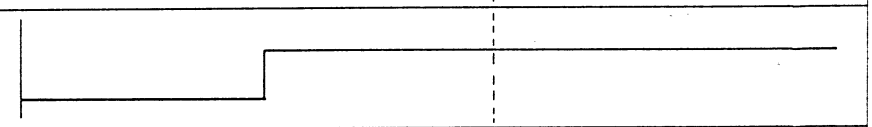
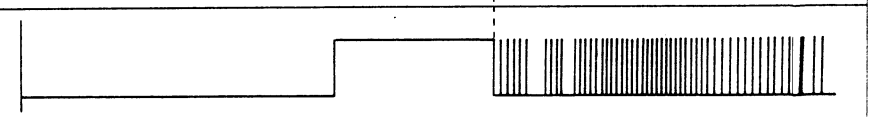
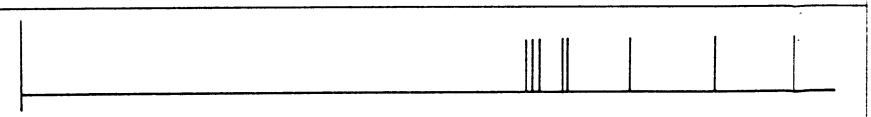
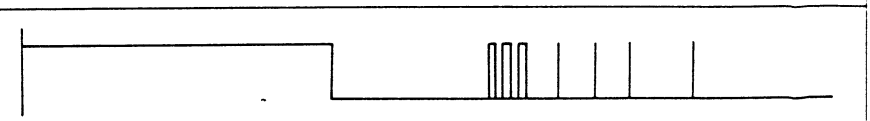
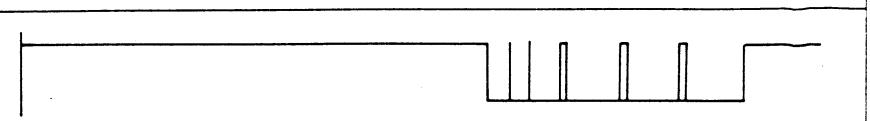
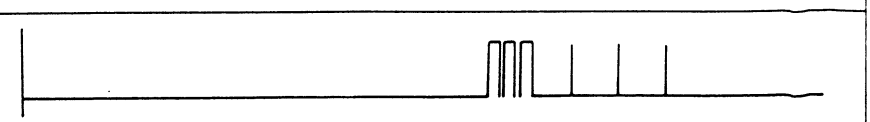
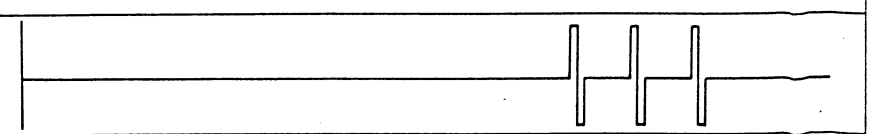
● SUB CODE OUTPUT



● SUB COMMAND INPUT



• **After power on each state until normal play(with disc).**

IC NO.	SIGNAL	PIN NO.	WAVEFORM
IC06	FM+	㊷	
	FM−	㊶	
	$\overline{\text{LASER}}$	㉟	
IC02	FOCS	⑬	
	FST	⑭	
IC01	FDO	㉒	
IC01	DRF	㊵	
IC02	CLV+	⑪	
	CLV−	⑫	
	T.OFF	⑲	
	TGL	⑳	
	THLD	㉑	
IC01	JP0	⑲	

PIN FUNCTION OF IC1201 & IC1301

1. IC1201 (LC7860, Digital Signal Processor)

Pin No.	Pin name	I/O	Function
1	TEST1	I	For LSI test. This is disconnected in normal operations.
2	A_O	O	Compose VCO with an LC resonance circuit connected between A_I and A_O. (8.6436 MHz) P_{DD} is a phase output with the EFM signal, and set so that frequency rises in the + mode.
3	A_I	I	
4	P_{DO}	O	
5	V_{SS}	—	GND
6	EFMO	O	Input the HF signals of 1 to 2 V_{PP} to EFMIN. EFM signals each having an inversed phase to the other are output from EFMO and $\overline{EFMO}$ through the amplitude limiter. These signals are used for slice level control.
7	$\overline{EFMO}$	O	
8	EFMIN	I	
9	TEST2	I	For LSI test. This is disconnected in normal operations.
10	V_{DD}	—	+5V
11	CLV+	O	For disc motor control output.
12	CLV−	O	
13	FOCS	O	Turn off the focus servo while FOCS is set to H. FST lowers the lense when in the L state, and rises it gradually when in the H state. When $\overline{FZD}$ is generated, FOCS is reset, retrieving the focus.
14	FST	O	
15	$\overline{FZD}$	I	
16	HFL	I	A kick pulse, JP +, or JP − is generated according to a track command which specifies the number of tracks to be jumped(1, 4, 16, or 64).
17	TES	I	
18	FSEQ/ PCK	O	4.4MHz PCK monitor terminal. This is set to H when SYNC detected from the EFM signal coincides with SYNC on the counter while DEMO is set to H.
19	TOFF	O	A kick pulse, JP +, or JP − is generated according to a track command which specifies the number of tracks to be jumped(1, 4, 16, or 64).
20	TGL	O	
21	THLD	O	
22	JP+	O	
23	JP−	O	
24	DEMO	I	This pin is used for adjustment of the set(sound adjustment).

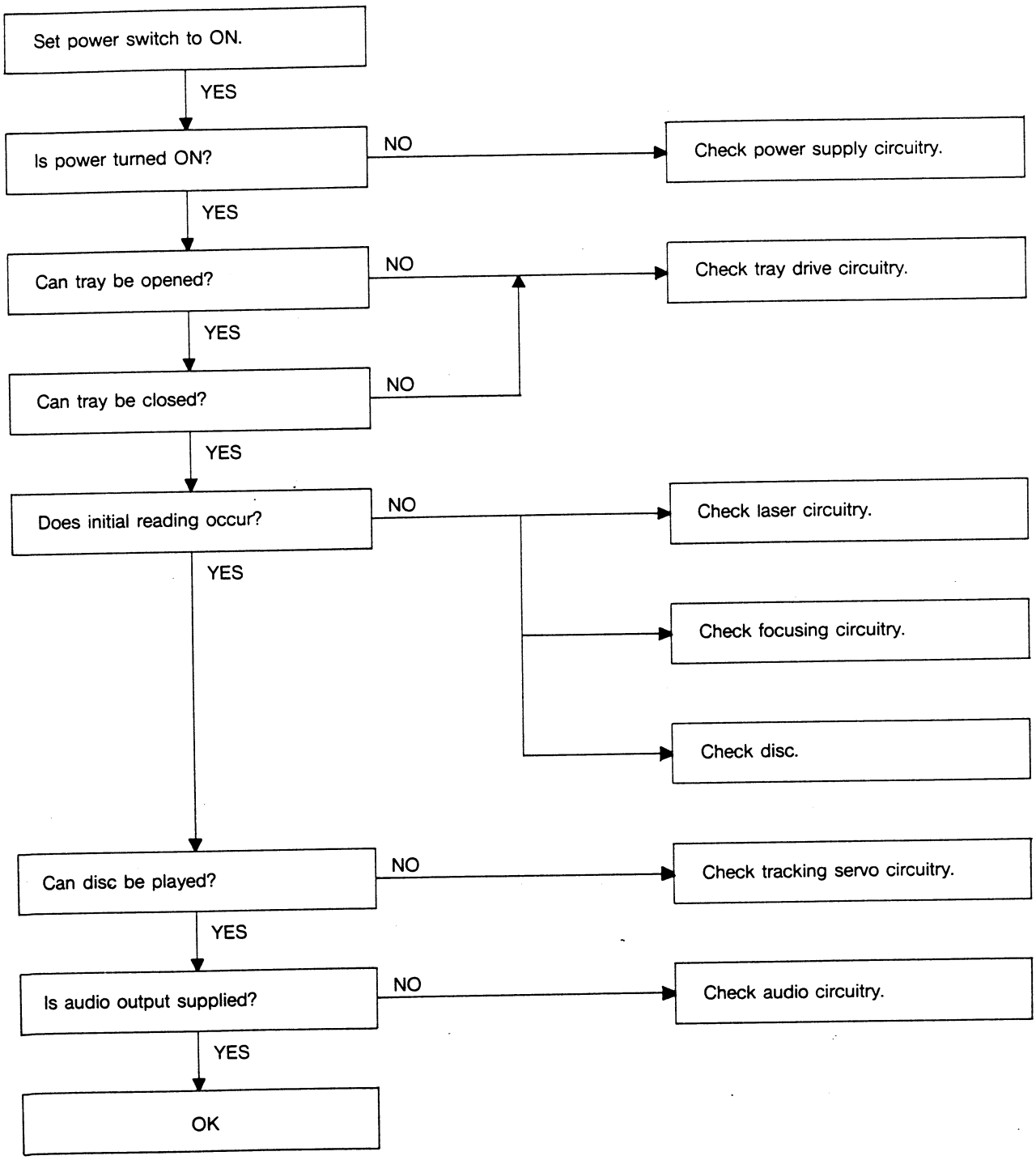
Pin No.	Pin name	I/O	Function
25	TEST3	I	For LSI test. This is disconnected in normal operations.
26	EMPH	O	Di-emphasis is needed when this pin is set to H.
27	DFOFF	I	Digital filter ON/OFF switch. When this pin is set to H, the digital filter function is diactivated.
28	DSPOFF	I	For LSI test. This is set to L in normal operation.
29	SMP2	O	Signal output to DAC, L/R switching or sample hold signal.
30	LRCLK	O	
31	V_{DD}	—	+5V
32	SMP3	O	Signal output to DAC, L/R switching or sample hold signal.
33	SMP1	O	
34	DFOUT	O	
35	DACLK	O	Signal output to DAC, L/R switching or sample hold signal.
36	DFIN	I/O	Output signals corresponding to CD ROM. Synchronous signals corresponding to CD ROM.
37	LRSY	O	
38	MSBF	I	Signal output to DAC, L/R switching or sample hold signal.
39	CK2	O	2.1609 MHz
40	AD10	O	RAM address output
41	OE	O	Output mode when WE=L, and input mode when WE=H, OE is used to control input and output.
42	WE	O	
43	AD9	O	RAM address output
44	AD8	O	
45	AD7	O	
46	AD6	O	
47	AD5	O	
48	AD4	O	
49	AD3	O	RAM address output
50	AD2	O	
51	AD1	O	
52	AD0	O	

Pin No.	Pin name	I/O	Function
53	DB7	I/O	DB7 to DB0 : Connect to the RAM data pins.
54	DB6	I/O	
55	DB5	I/O	
56	V_{SS}	—	GND
57	DB4	I/O	DB7 to DB0 : Connect to the RAM data pins.
58	DB3	I/O	
59	DB2	I/O	
60	DB1	I/O	
61	DB0	I/O	
62	TEST4	I	For LSI test. This is disconnected in normal operations.
63	TEST5	I	
64	OFF	I	Corresponding to CD ROM. When this pin is set to H, interpolation and previous value holding are not performed.
65	EFLG	O	C1 and C2 (single and double) correction monitoring.
66	PW	O	PWSY finds a change in SYNC, combined sub and main, from H to L, externally, and sends clocks to SBCK eight times to read subcode P,Q, R, S, T, U, V, or W.
67	PWSY	O	
68	SBCK	I	
69	FSX	O	7.35 KHz synchronous signal output.
70	WRQ	O	WRQ is set to H when the subcode Q data is passed the CR check. This is detected from outside, and $\overline{CQCK}$ is transmitted to read data. If data is to be read with the LSB first, set M/L to L. Set RWC to H using a microcomputer, and send a command data synchronized with $\overline{CQCK}$.
71	RWC	I	
72	SQOUT	O	
73	V_{DD}	—	+5V
74	COIN	I	
75	$\overline{CQCK}$	I	
76	RES	I	Set to L first when the power is turned on.
77	H/L	I	
78	V_{SS}	—	GND
79	X_{IN}	I	8.6436 MHz crystal oscillator connection pins.
80	X_{OUT}	O	

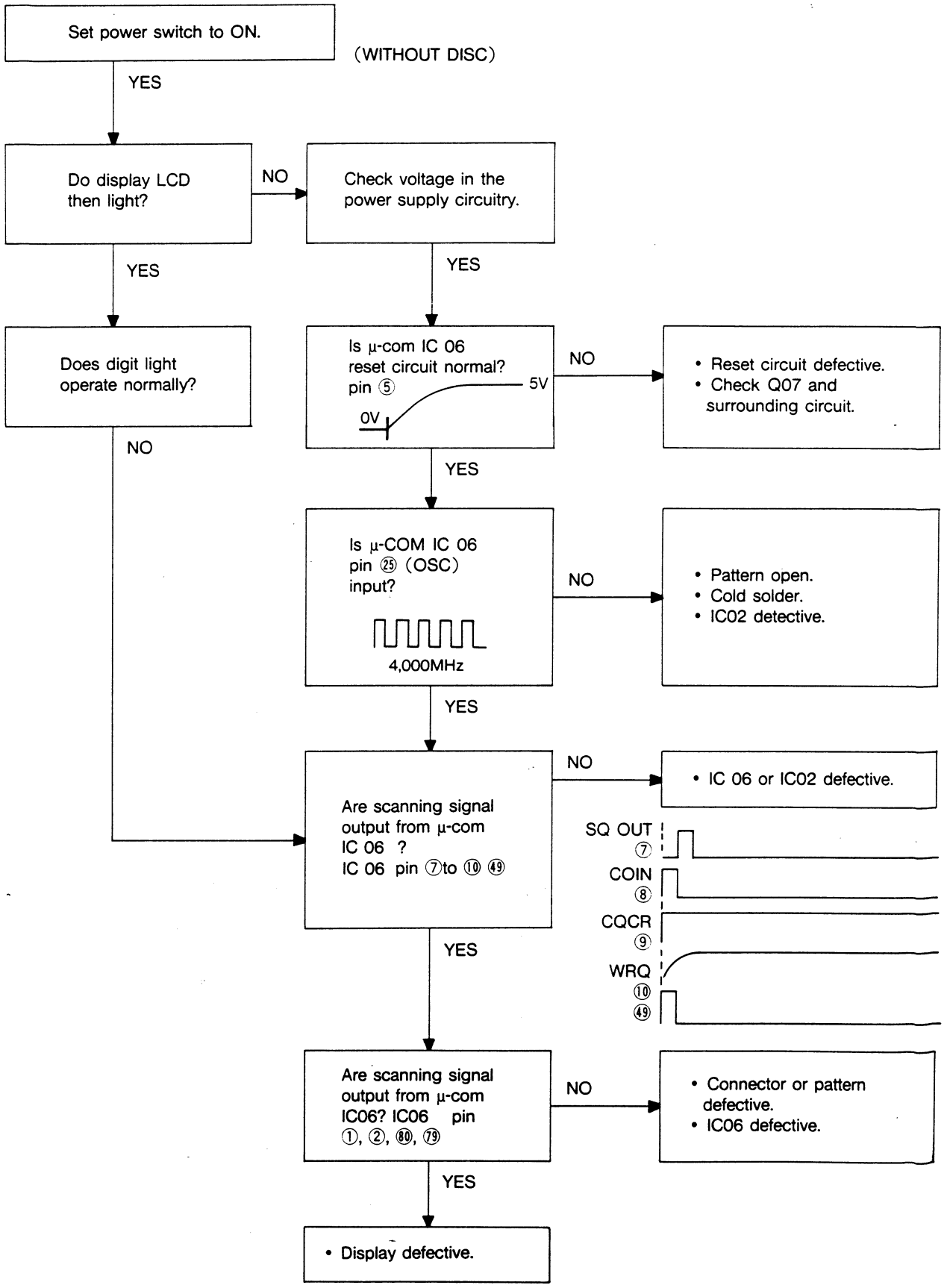
2. IC1301 (LC788M, D/A Converter)

Pin No.	Name	Description
1	CH10UT	CH10UT output pin(R-ch output for LC7860)
2	VrefH	Reference voltage "H" input pin
3	NC	No connection
4	VDD	+5V power supply voltage
5	WCLK2	Word clock input #2 When IF is "L" level and WCLK2 goes LOW, an internal signal is generated that latches the data on the left digital audio channel. When IF is "H" level, WCLK2 must be "L" level.
6	LRCK	Left-right clock input. When "H" level, shows that the digital audio input is on the left-channel ; when "L" level, on the right-channel.
7	WCLK1	Word clock input #1 When IF is "L" level and WCLK1 goes "L" level, an internal signal is generated that latches the data on the right digital audio channel. When IF is "H" level and WCLK1 goes "L" level, an internal signal is generated that latches the data on both the right and left digital audio channels.
8	DATA	Digital audio data input. When IF is "L" level, data is input in bit-serial format from the least significant bit(LSB). When IF is "L" level, data is input bit-serial format from the most significant bit(MSB).
9	BCLK	Bit clock input pin. Bit clock for reading in digital audio data in bit-serial format and the clock for the PWM DAC.
10	V_{DD}	+5V power supply voltage.
11	TSTOUT	Test output, normally open.
12	TST1	Test input, normally grounded.
13	TST2	Test input, normally grounded.
14	IF	Interface toggle. Digital audio data is input LSB first when "L" level, and MSB when "H" level.
15	GND	Ground
16	VrefL	Reference voltage "L" level input.
17	GND	Ground
18&19	NC	No connection
20	CH20UT	CH20UT output pin (L-ch output for LC7880)

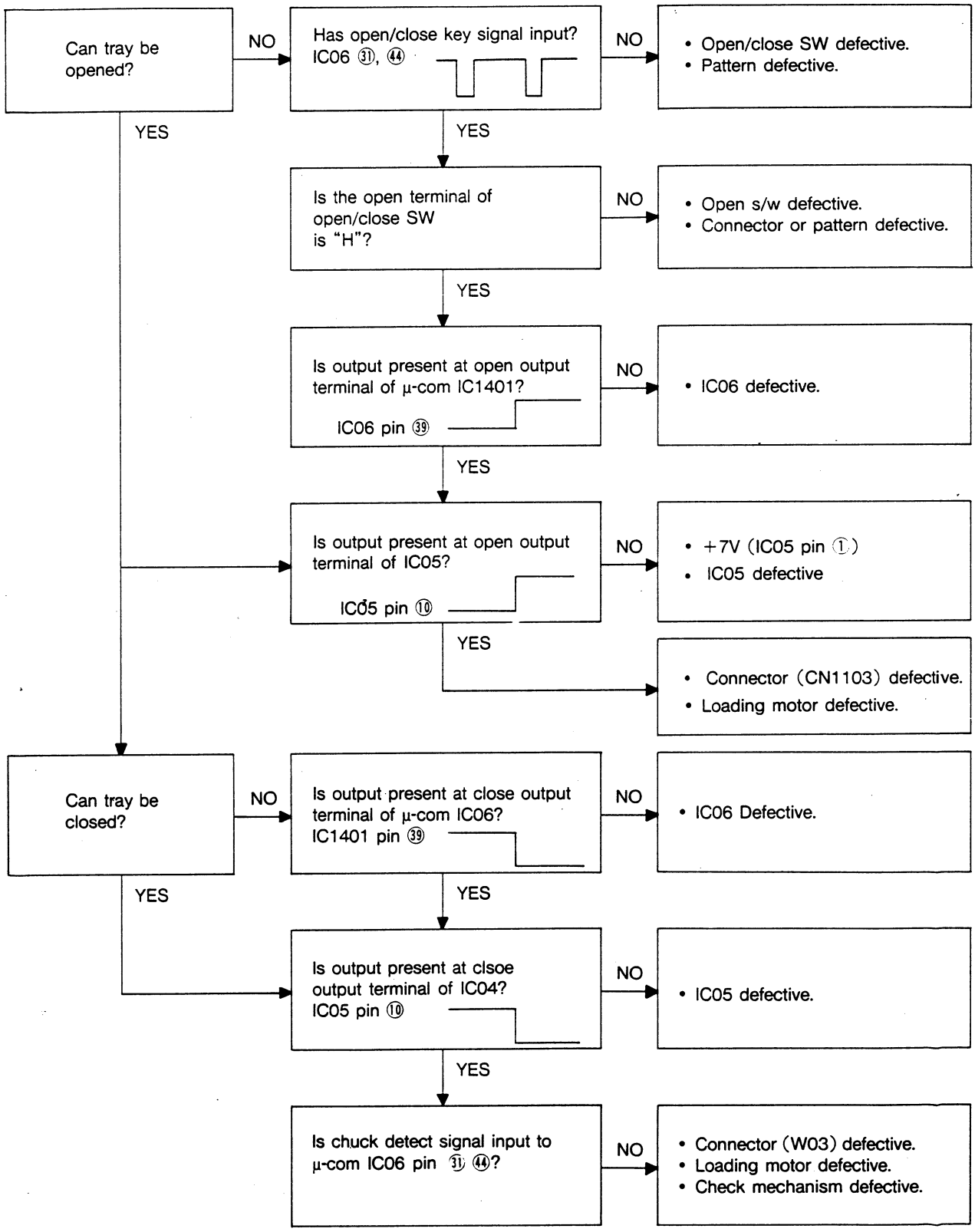
TROUBLESHOOTING GUIDE (FOR CDP)



(1) If display LCD lighting is not normal

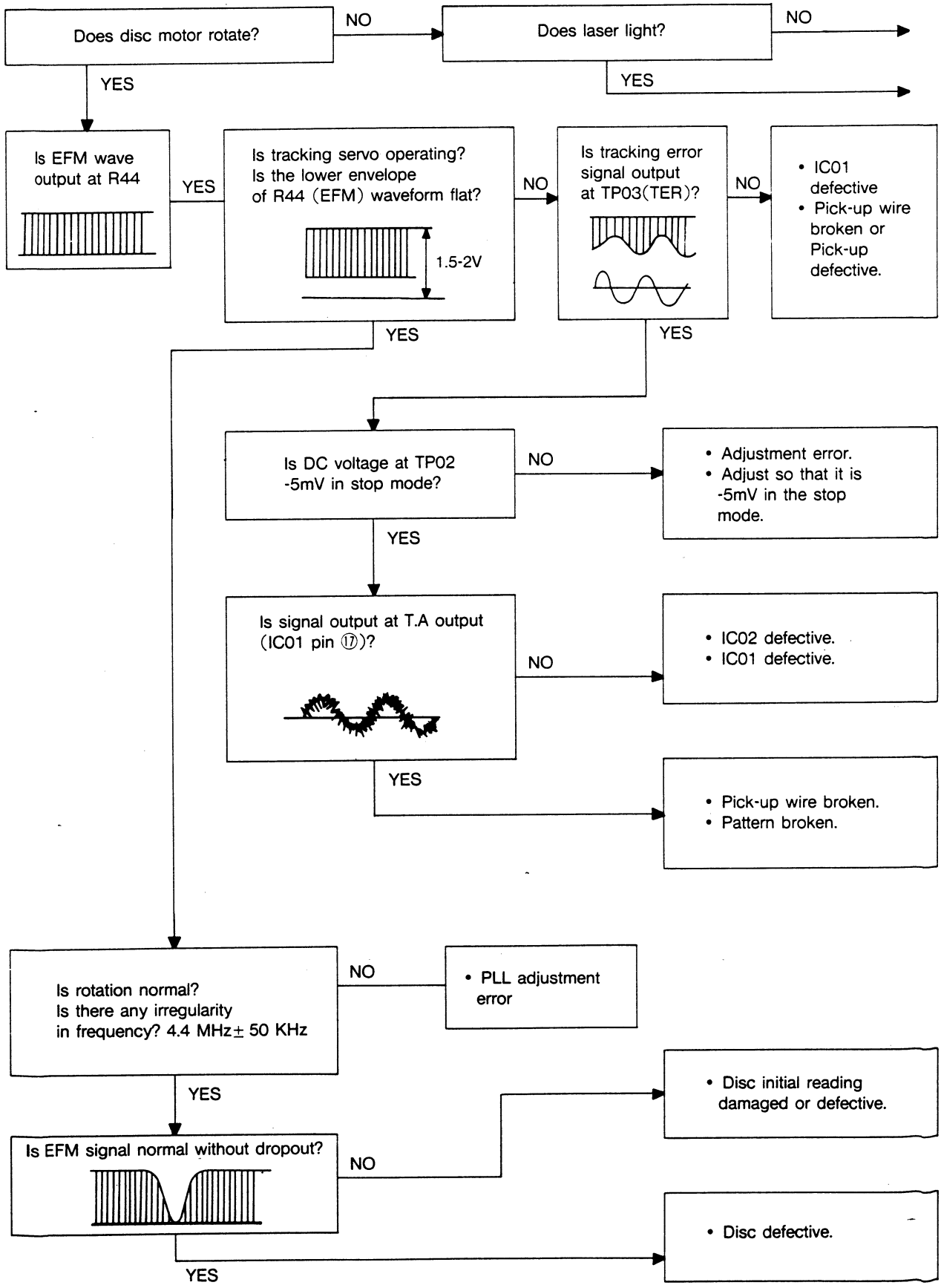


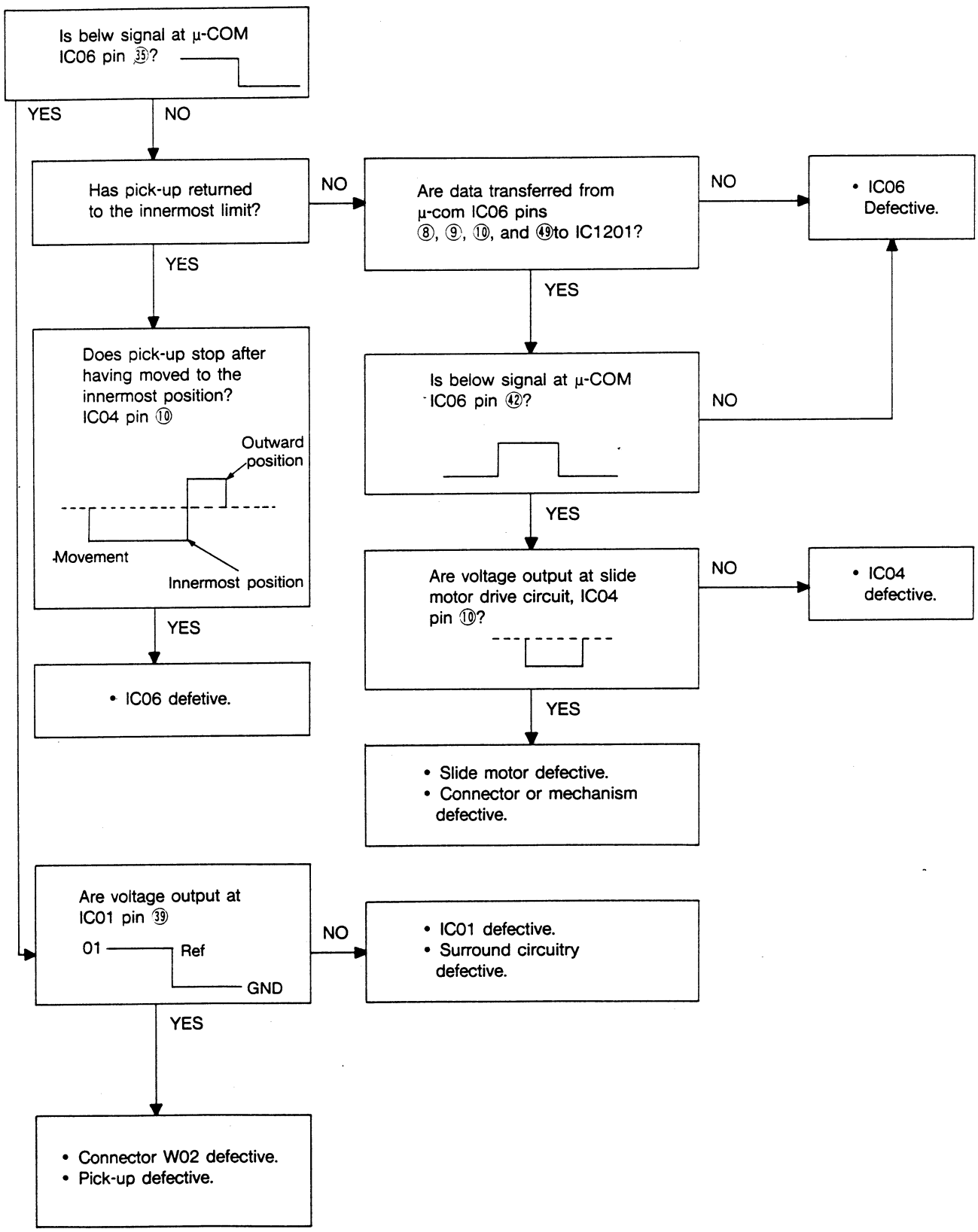
(2) If tray operation is not normal



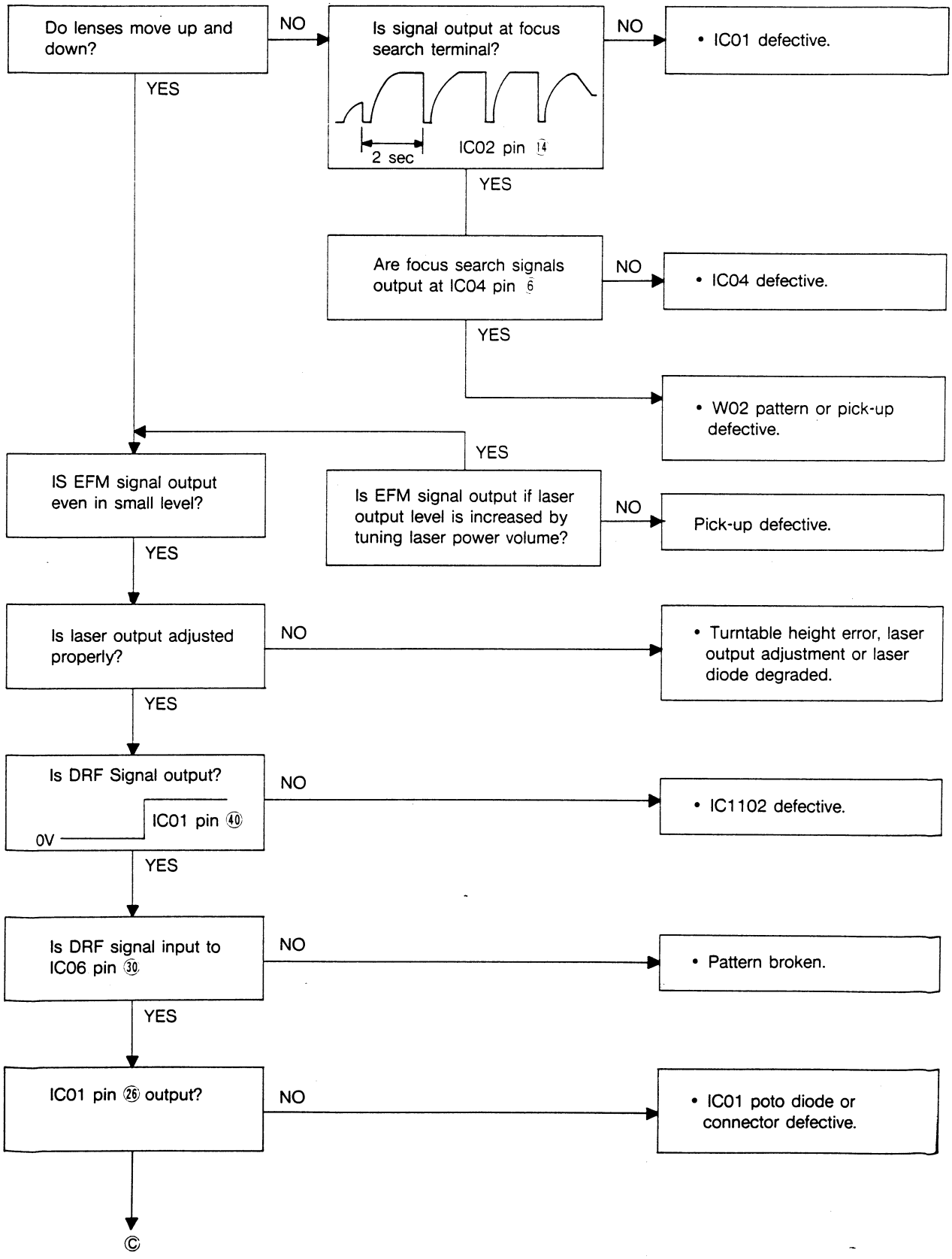
• If tray opens(closes) immediately after it was closed (opened), it is connecting W03, assembling cabinet mechanism, connector or leaf SW or pattern defective.

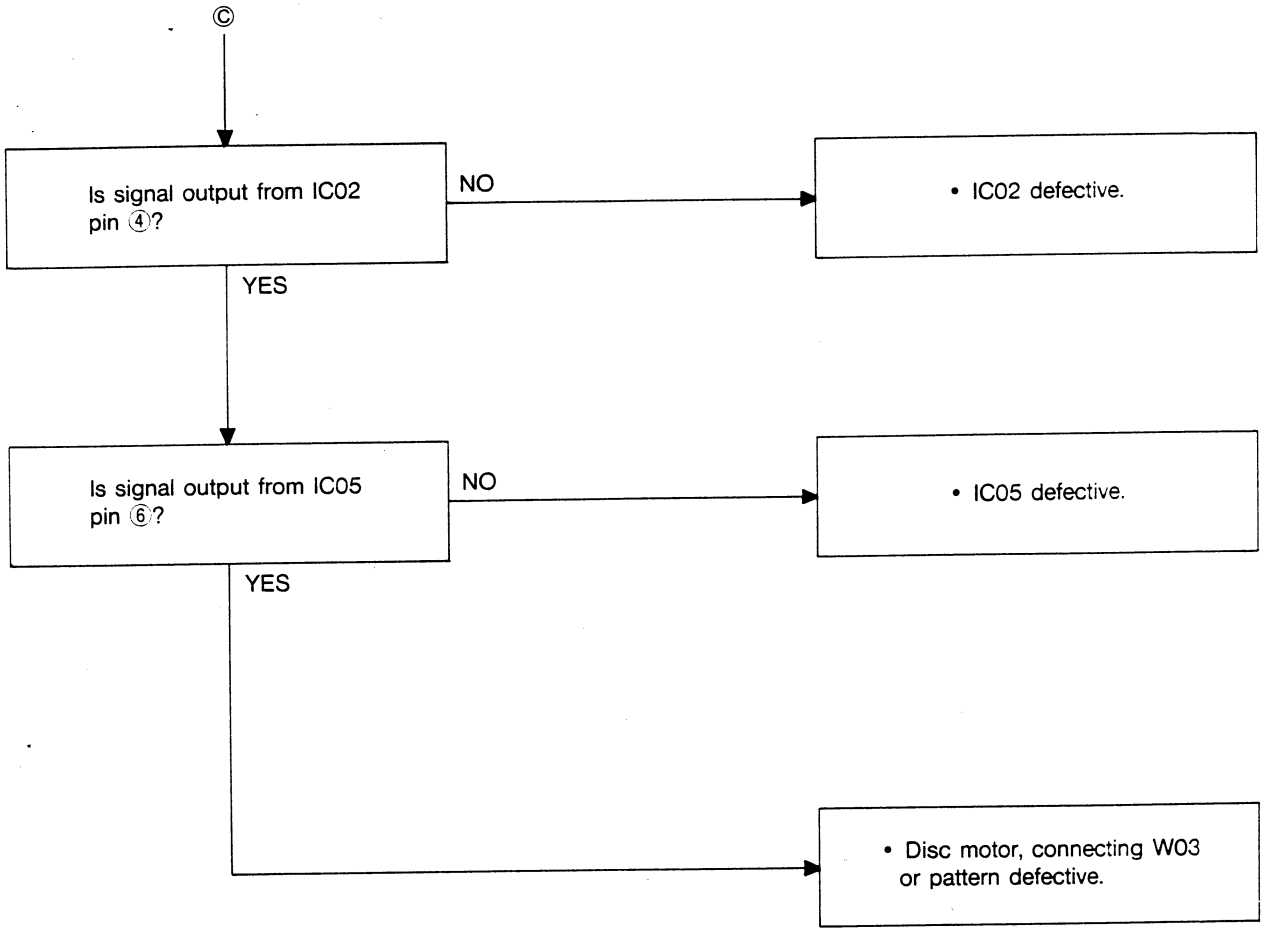
(3) If intial reading is not carried out



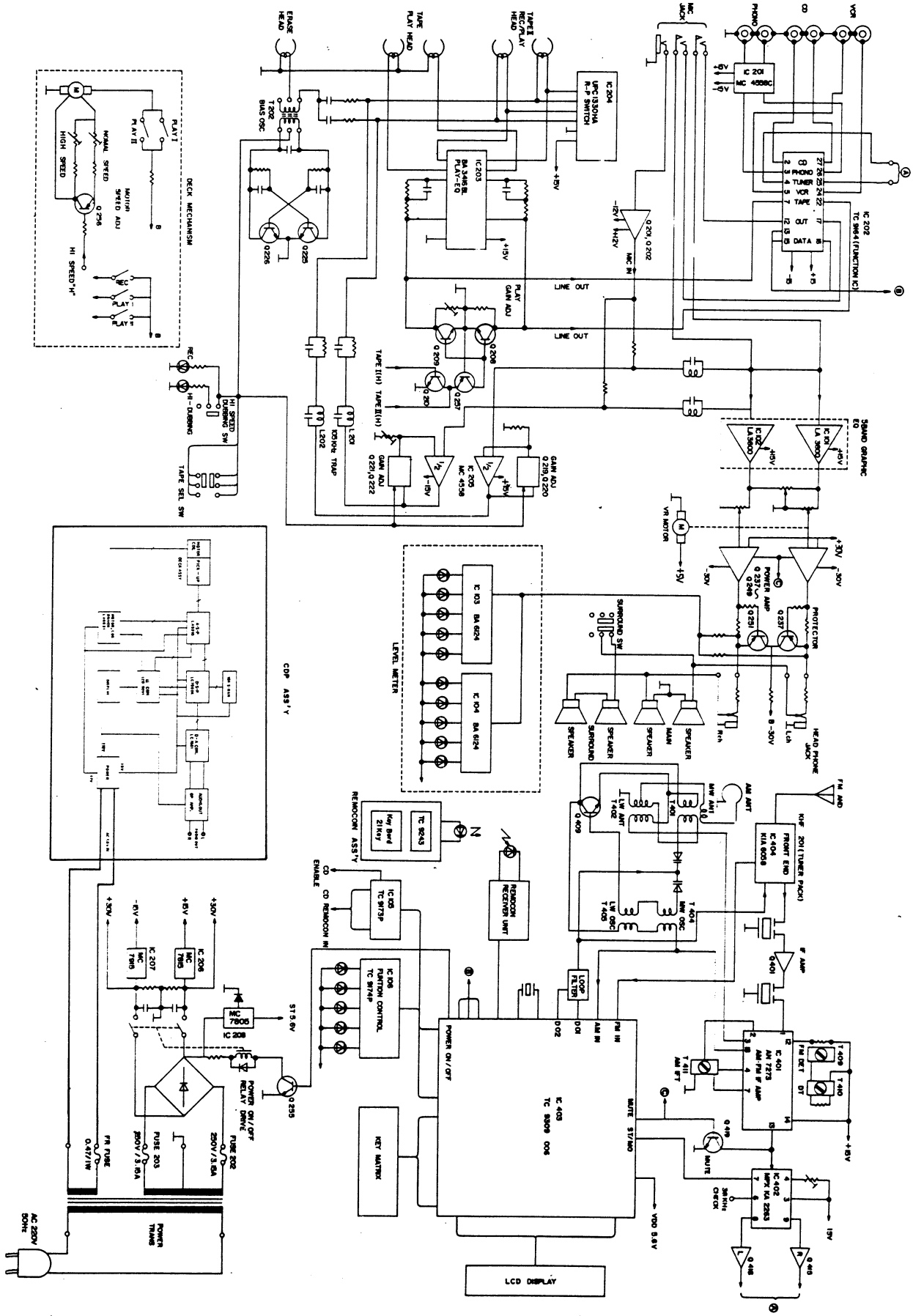

Is belw signal at μ-COM IC06 pin ㉟?
YES
NO
Has pick-up returned to the innermost limit?
NO
Are data transferred from μ-com IC06 pins ⑧, ⑨, ⑩, and ㊾to IC1201?
NO
• IC06 Defective.
YES
YES
Does pick-up stop after having moved to the innermost position? IC04 pin ⑩
Outward position
Movement
Innermost position
Is below signal at μ-COM IC06 pin ㊷?
NO
YES
YES
• IC06 defetive.
Are voltage output at slide motor drive circuit, IC04 pin ⑩?
NO
• IC04 defective.
YES
• Slide motor defective.
• Connector or mechanism defective.
Are voltage output at IC01 pin ㊴
01
Ref
GND
NO
• IC01 defective.
• Surround circuitry defective.
YES
• Connector W02 defective.
• Pick-up defective.

When laser lights



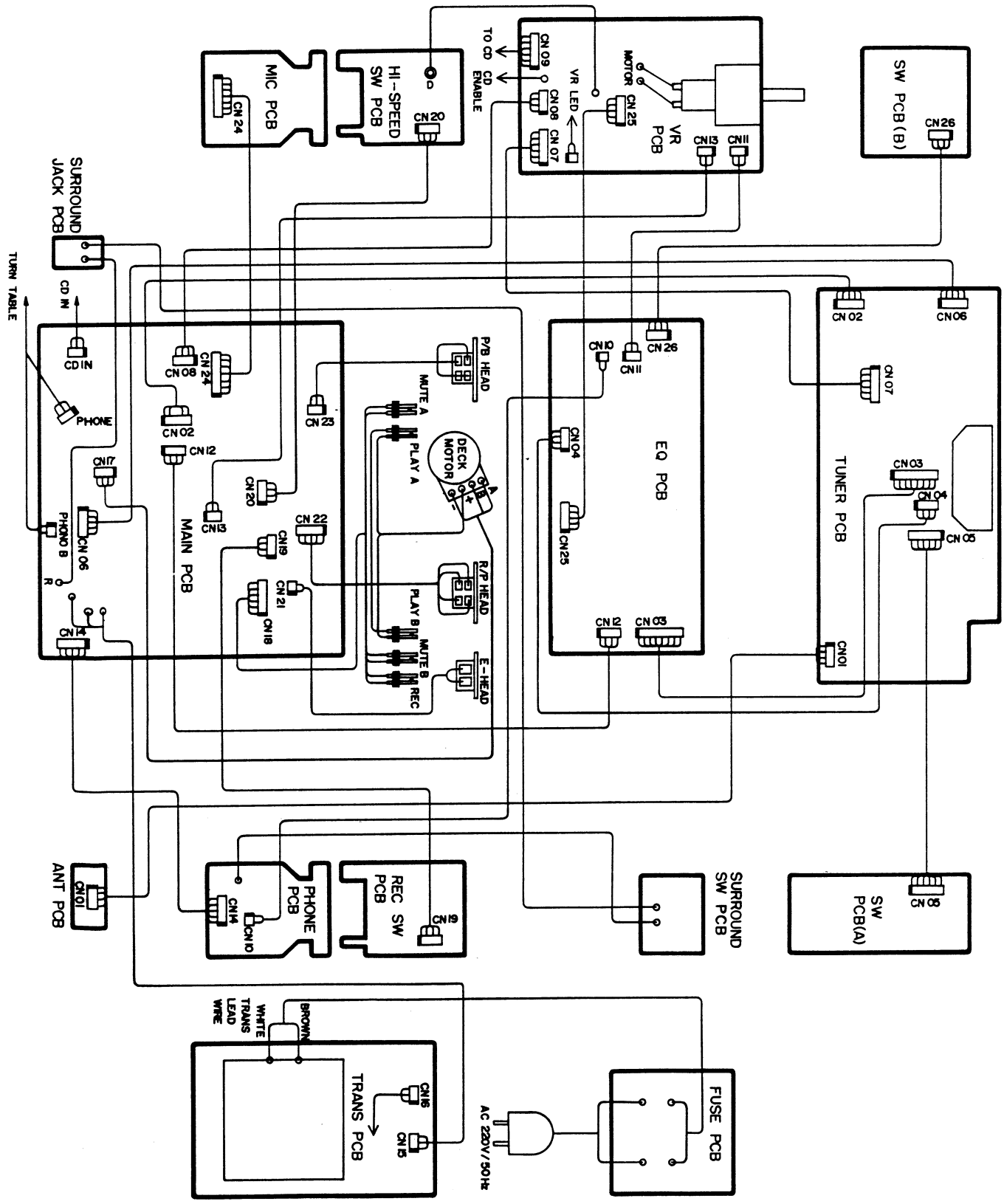

©
Is signal output from IC02 pin ④?
NO
• IC02 defective.
YES
Is signal output from IC05 pin ⑥?
NO
• IC05 defective.
YES
• Disc motor, connecting W03 or pattern defective.

BLOCK DIAGRAM

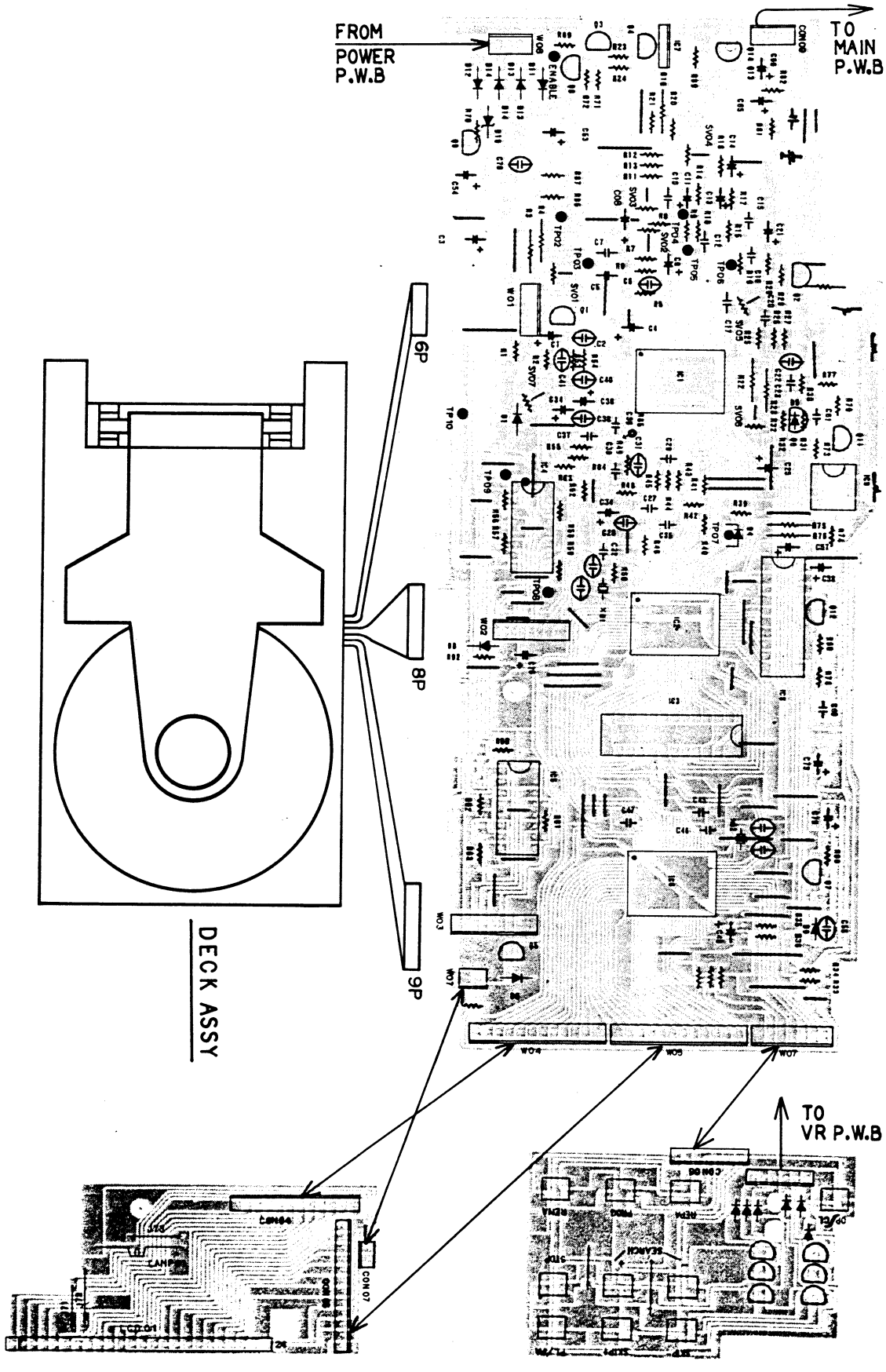


WIRING DIAGRAM

MAIN

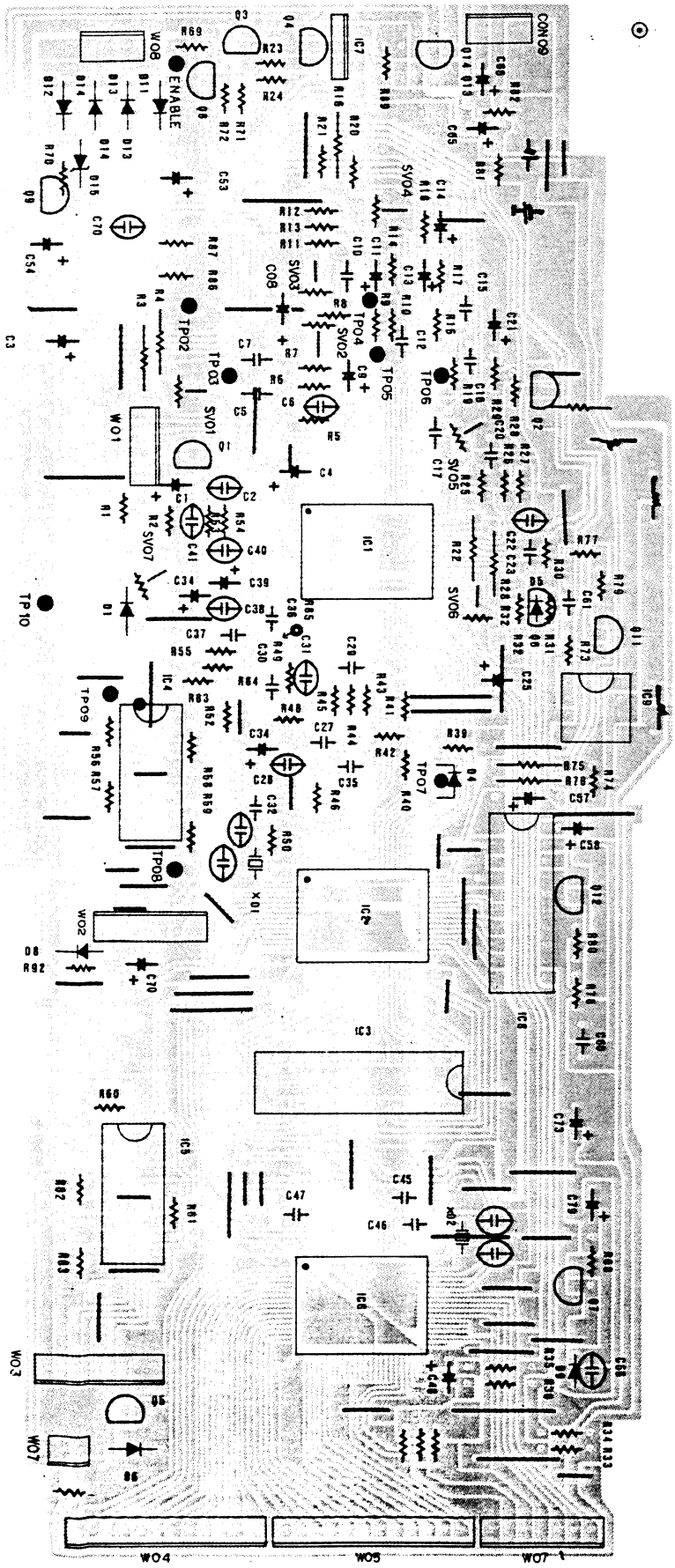


CDP

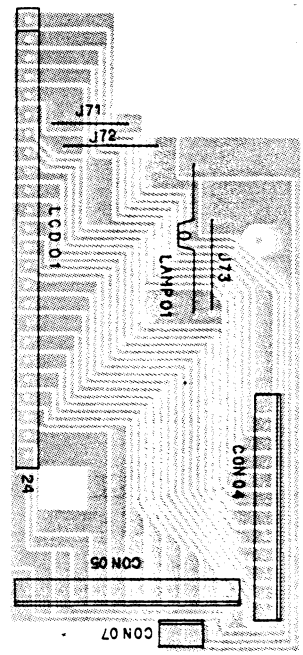


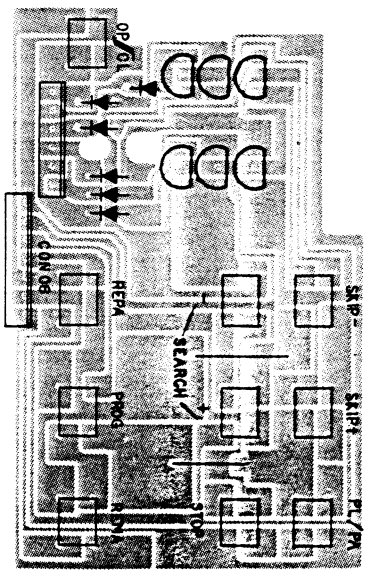
PCB LAYOUT

CD MAIN PCB

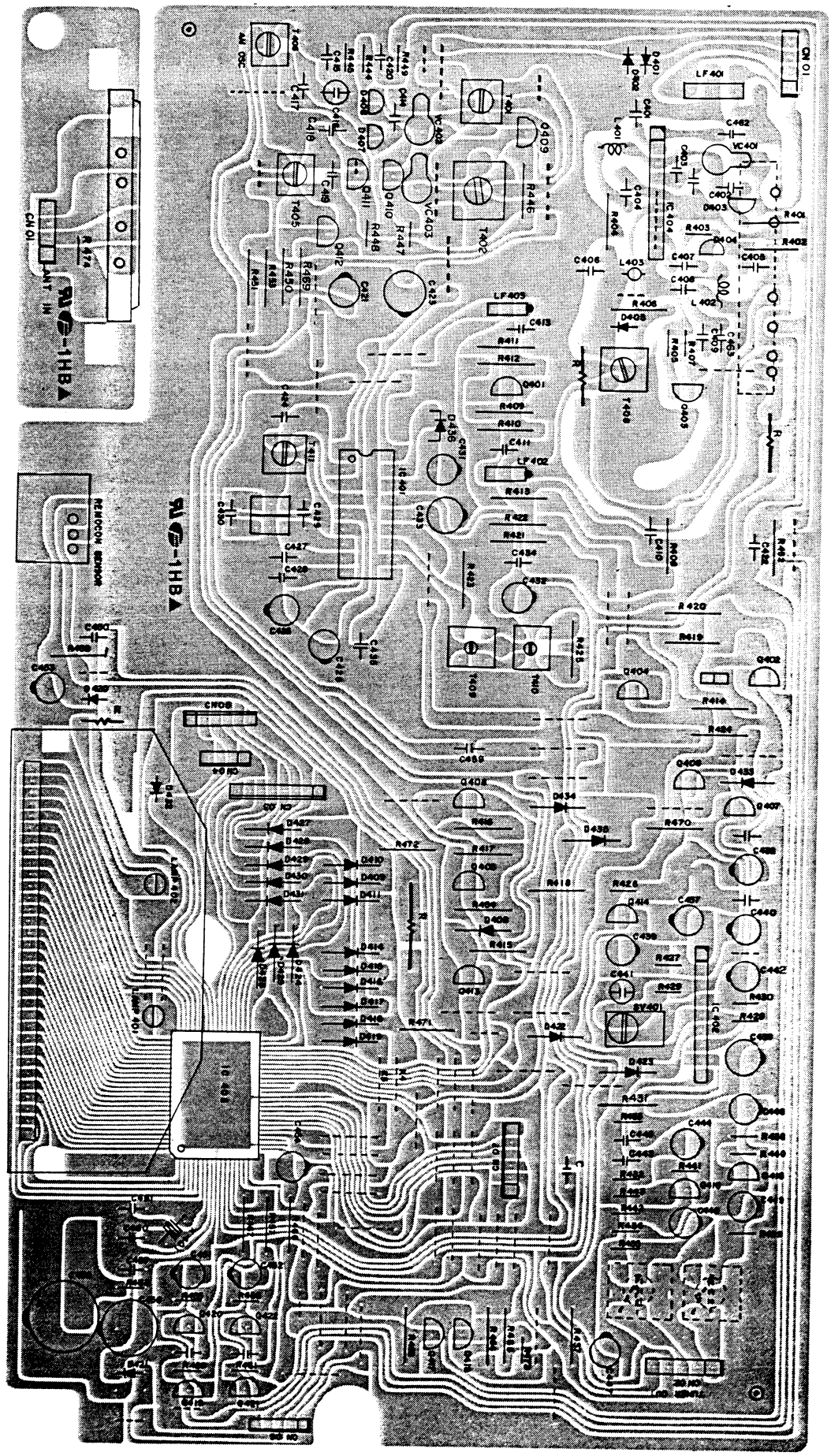


CD LCD PCB

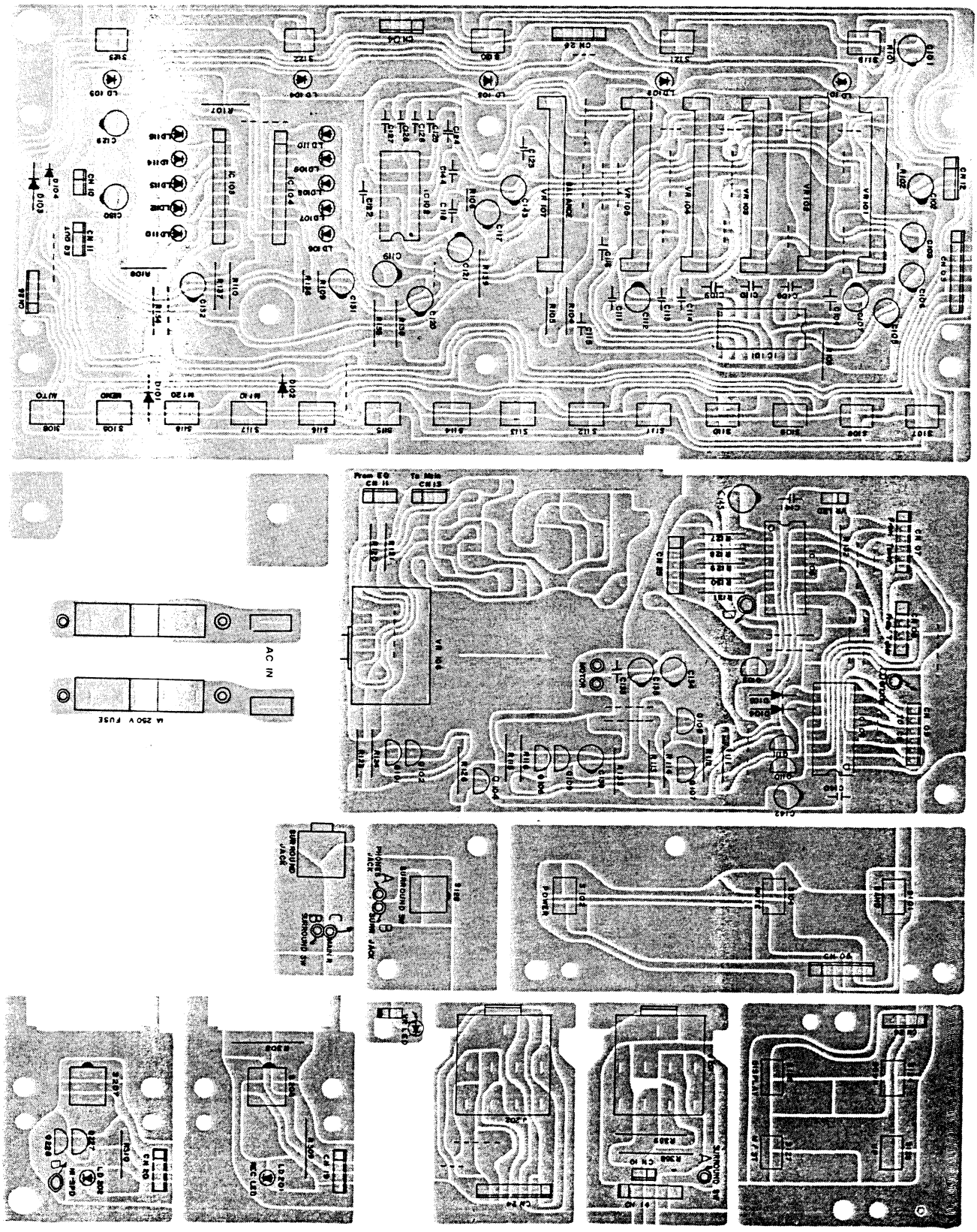




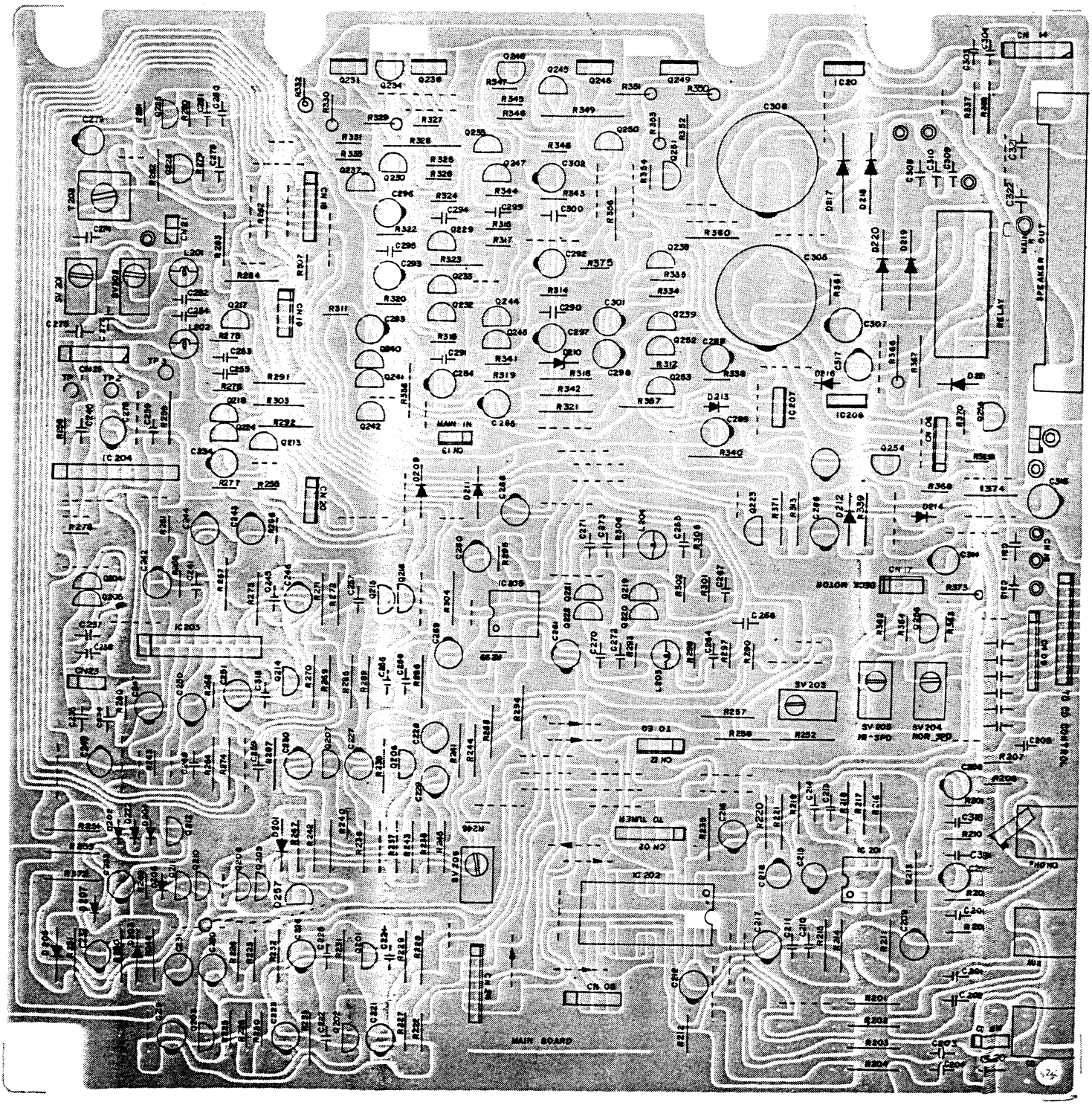
TUNER PCB



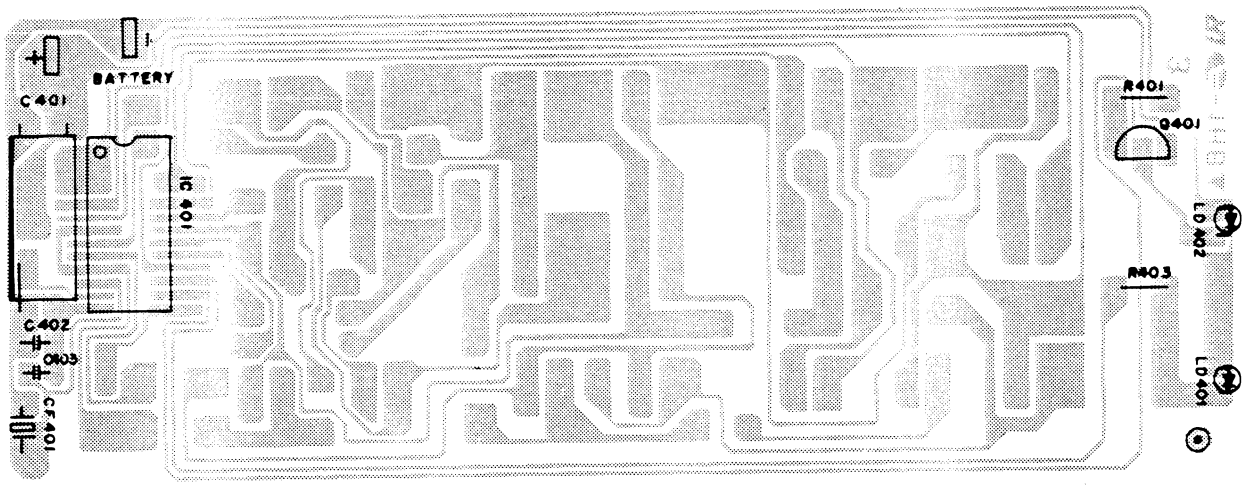
SUB PCB



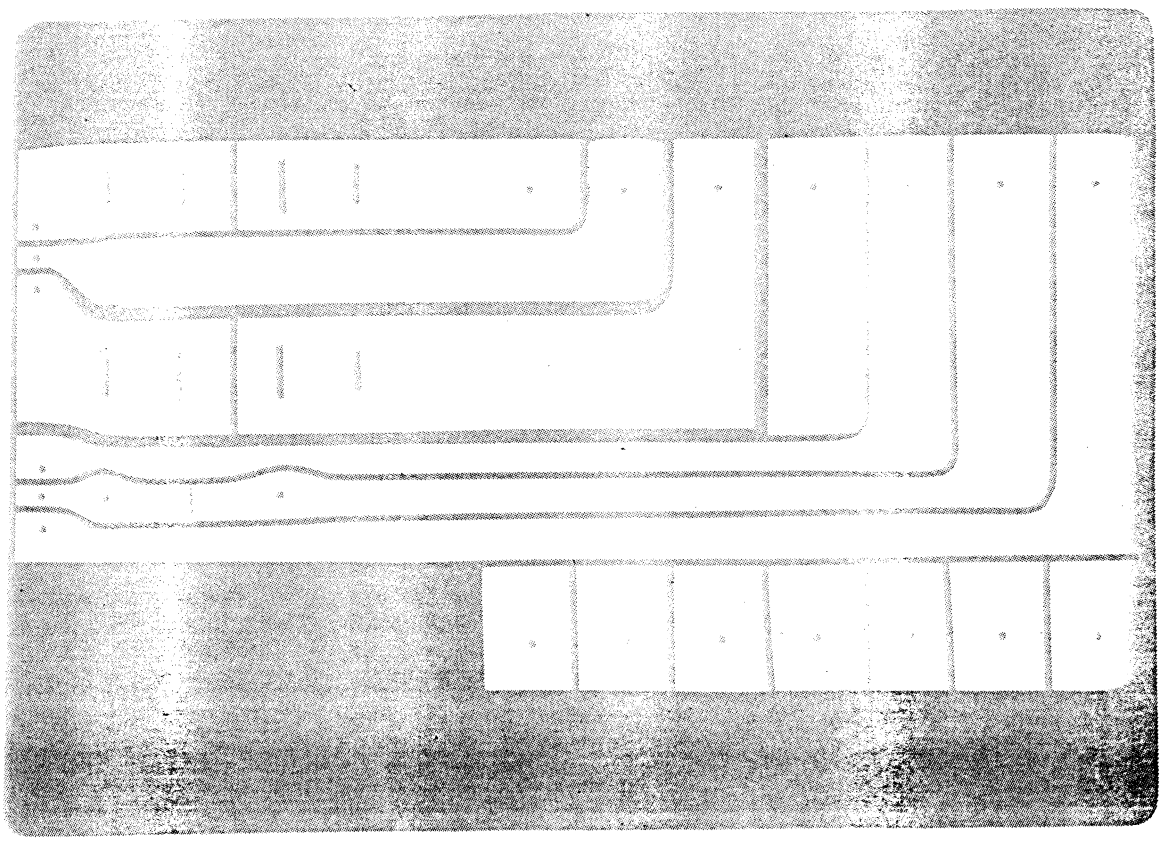
MAIN PCB



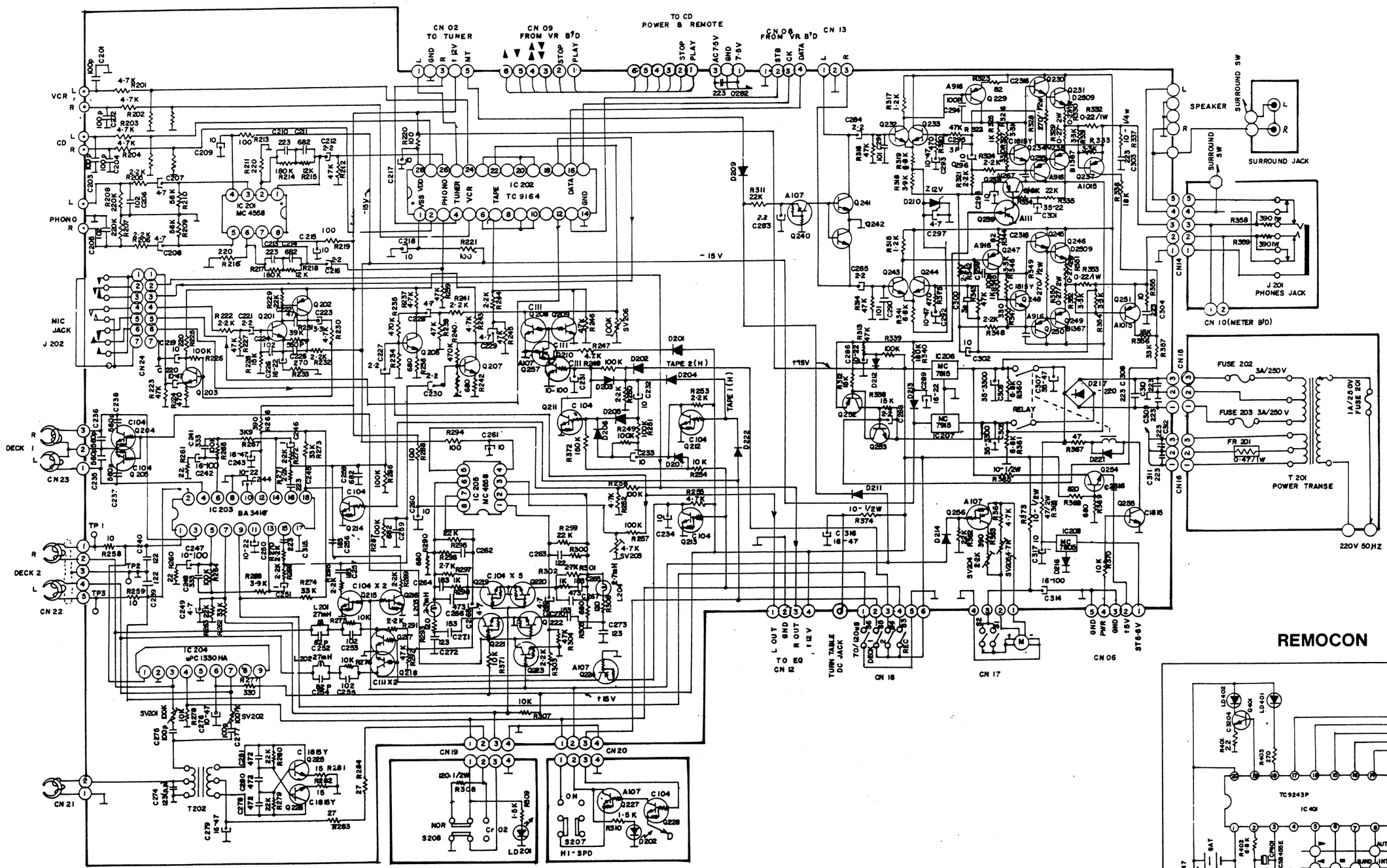
REMOCON PCB



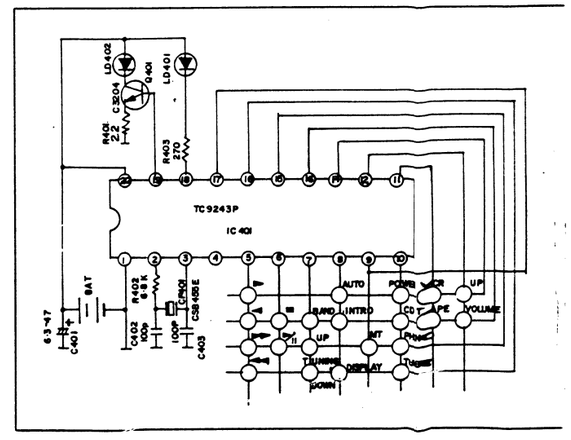
POWER PCB



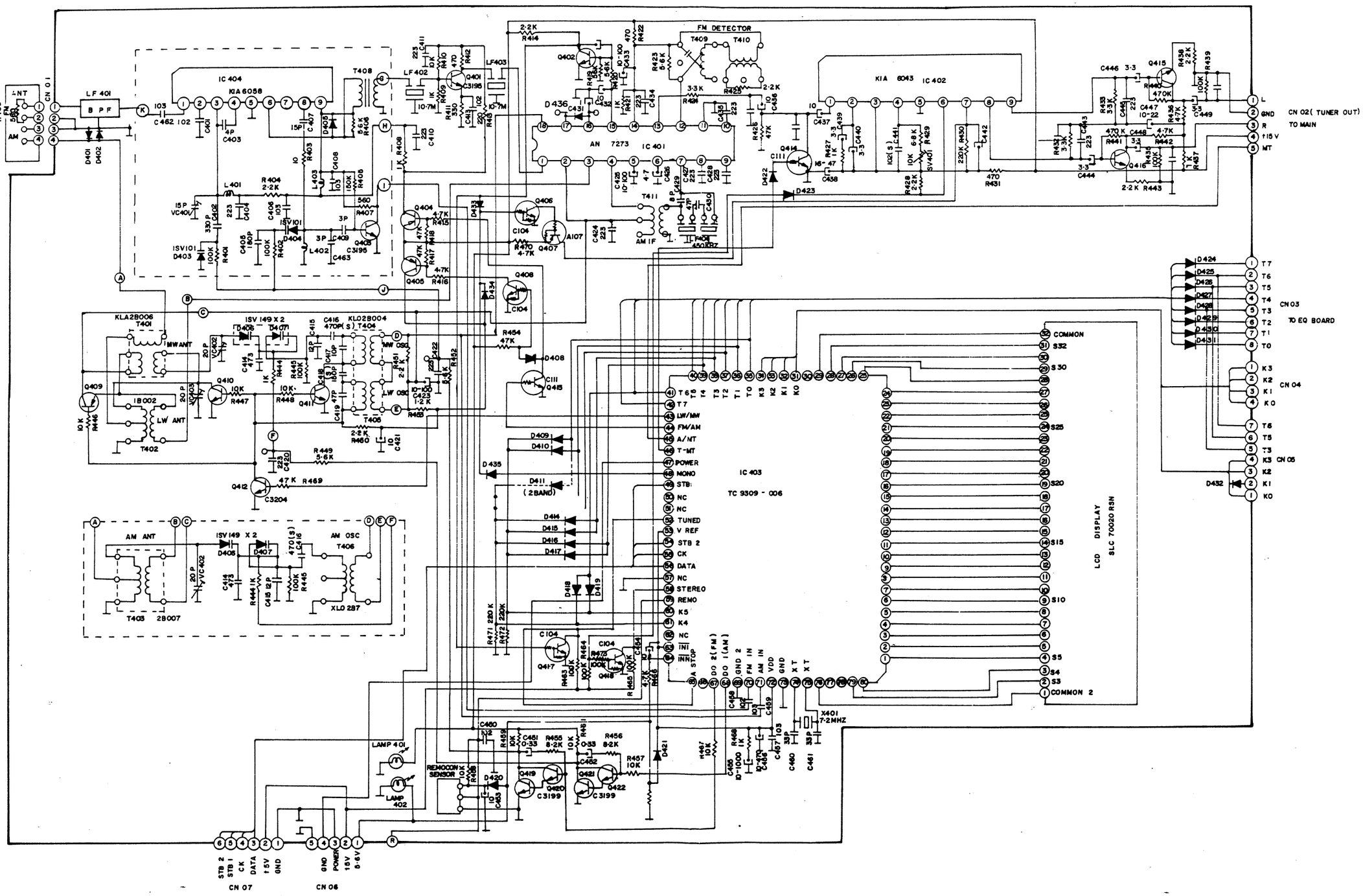
SCHEMATIC DIAGRAM (MAIN)



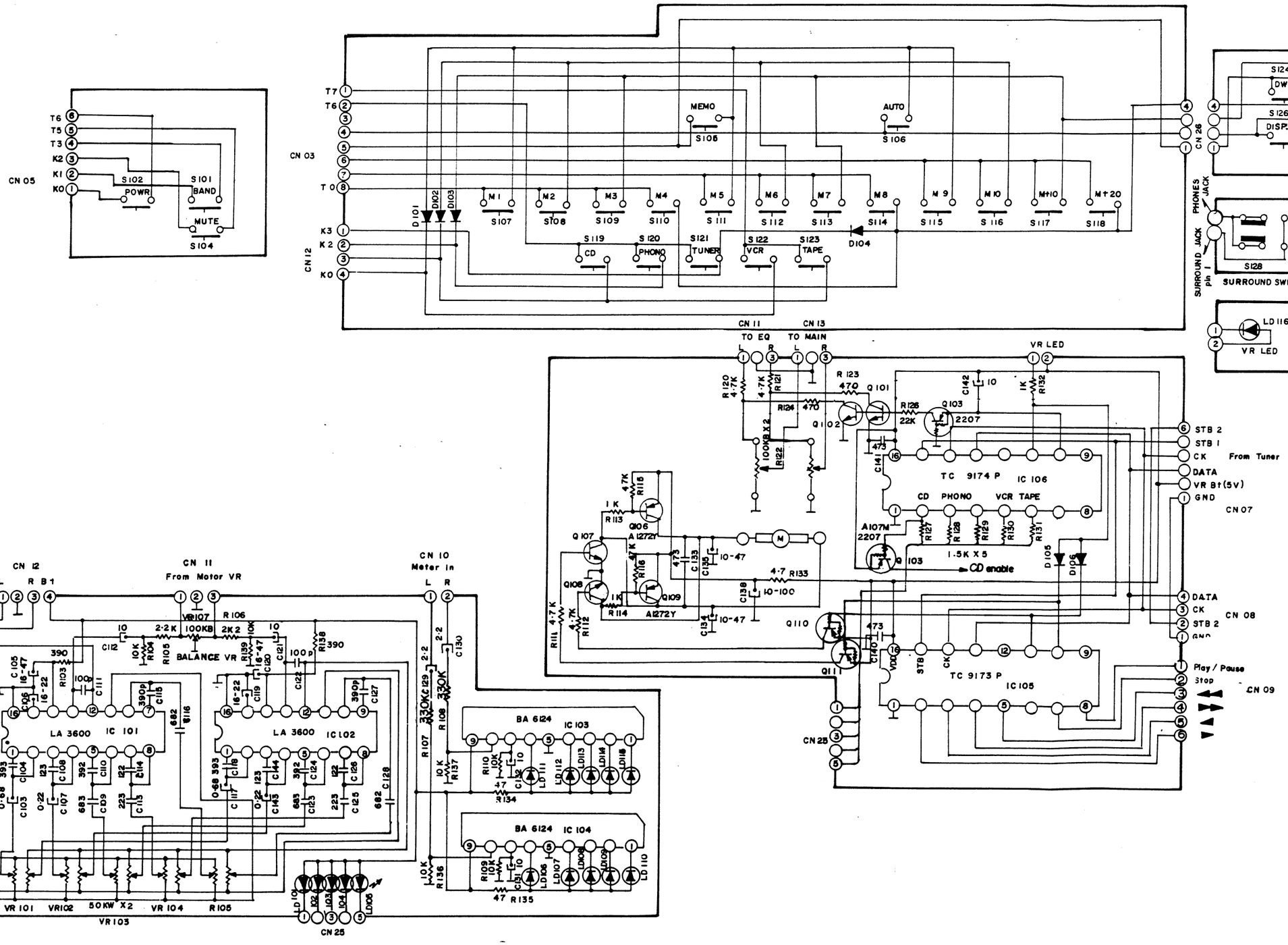
REMOCON



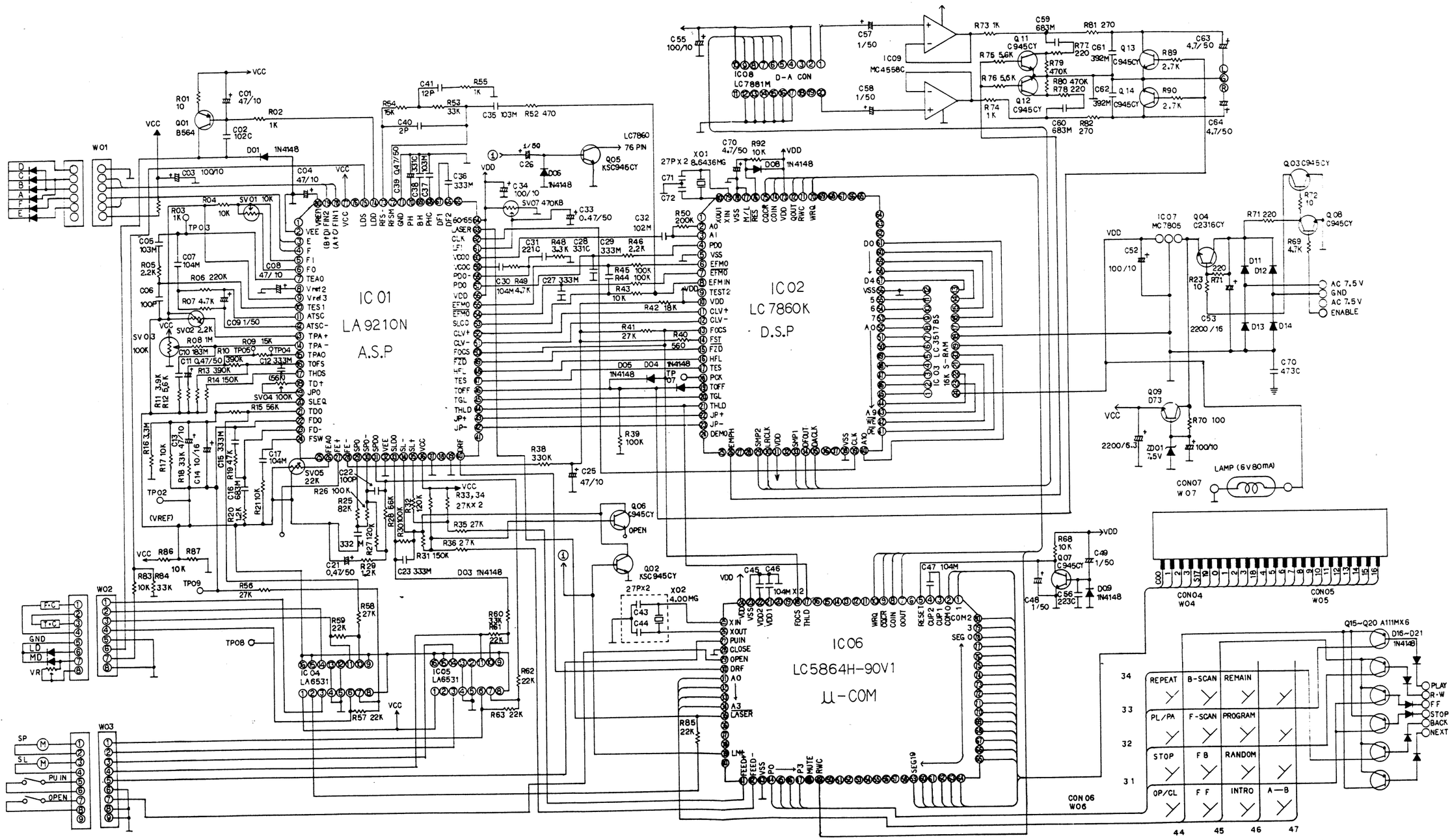
SCHEMATIC DIAGRAM (TUNER)



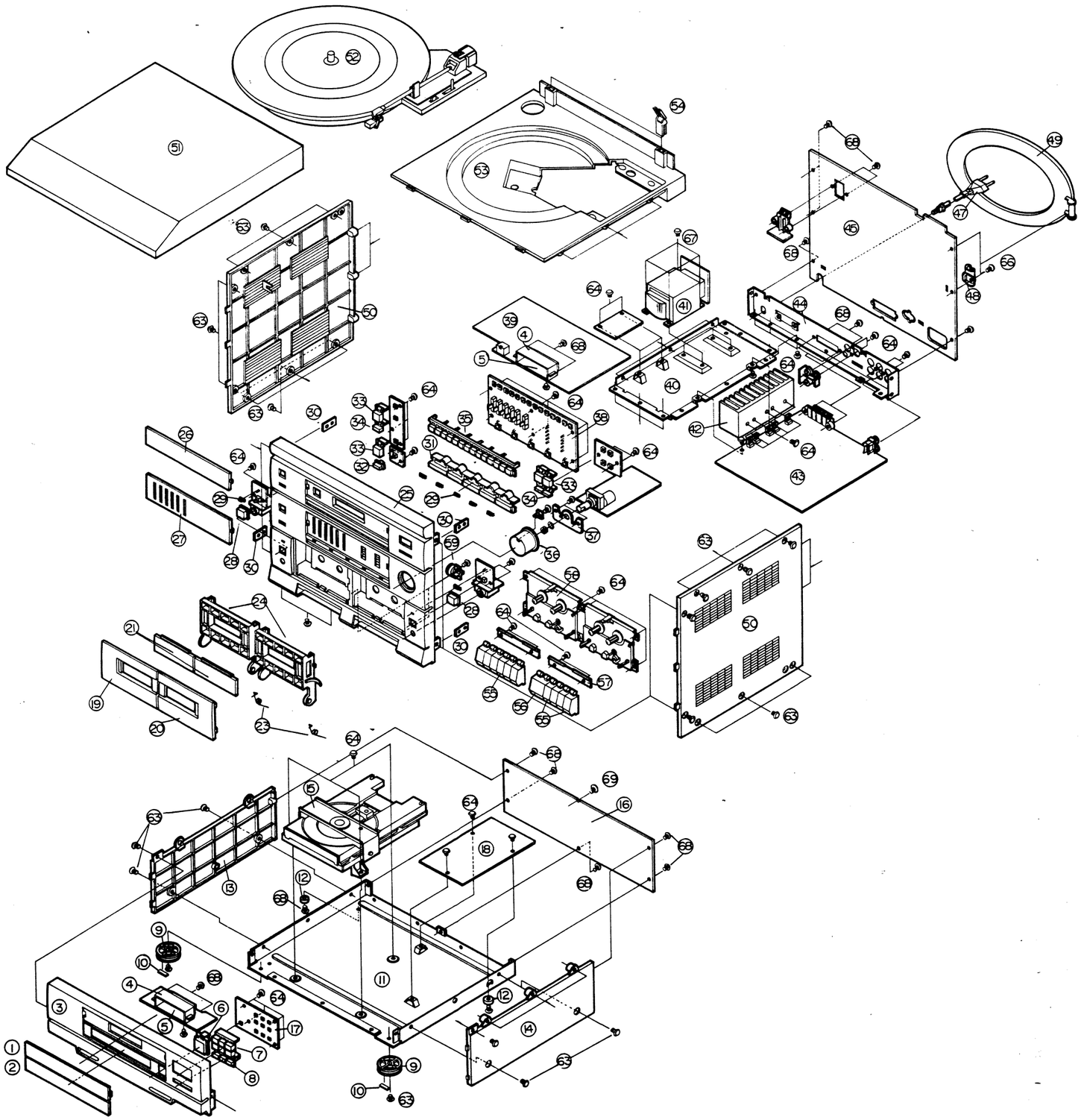
SCHEMATIC DIAGRAM(SUB)



SCHEMATIC DIAGRAM(CD)

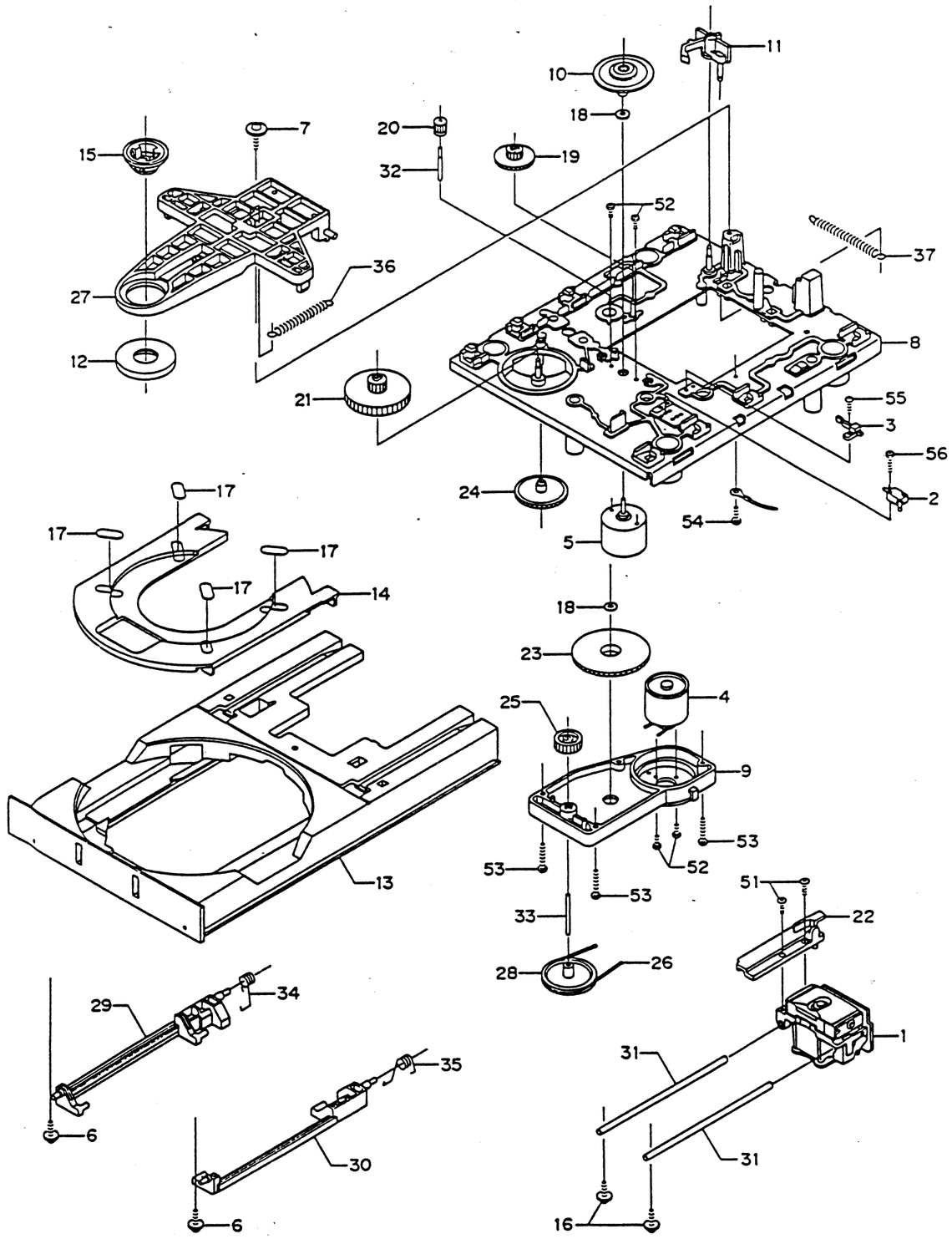


EXPLODED VIEW



NO	DESCRIPTION	REMARKS	Q'TY
1	CD WINDOW		1
2	CD DOOR		1
3	CD FRONT PANEL		1
4	LCD COVER		2
5	LCD FILTER		1
6	OPEN/CLOSE KNOB		1
7	CD SW KNOB		2
8	CD FUNCTION KNOB		1
9	FOOT		2
10	CUSHION FOOT		2
11	BOTTOM CHASSIS		1
12	FOOT(REAR)		2
13	CD SIDE COVER(L)		1
14	CD SIDE COVER(R)		1
15	CD MECHANISM		1
16	CD REAR BOARD		1
17	CD SUB PCB ASS'Y		1
18	CD MAIN PCB ASS'Y		1
19	DOOR BASE (L)		1
20	DOOR BASE (R)		1
21	DOOR WINDOW(L,R)		2
22			
23	EJECT SPRING		2
24	CASSETTE HOLDER		2
25	FRONT PANEL		1
26	WINDOW TUNER		1
27	WINDOW EQ		1
28	PUSH KNOB(A)		2
29	LED INDICATOR		7
30	SIDE BRACKET		4
31	FUNCTION KNOB		1
32	PUSH KNOB(B)		1
33	TACT KNOB(A)		4
34	TACT KNOB(B)		3
35	PRESET KNOB		1
36	VOLUME KNOB		1
37	VOLUME BRACKET		1
38	SUB PCB ASS'Y(MAIN)		1
39	TUNER PCB ASS'Y(MAIN)		1
40	BOTTOM CHASSIS		1
41	TRANS FOMER		1
42	HEAT SINK		1
43	MAIN PCB ASS'Y(MAIN)		1
44	REAR CHASSIS		1
45	REAR BOARD(M)		1
46			
47	POWER CORD		1
48	ANT HOLDER		1
49	AM ANT		1
50	SIDE COVER(L,R)		2
51	DUST COVER		1
52	TURN TABLE		1
53	PLAYER BASE		1
54	HINGE		2
55	DECK KNOB(A)		10
56	DECK KNOB(B)		1
57	DECK KNOB BRACKET		2
58	DECK MECHANISM	SM300ASS'Y1 or S-802	1
59	DAMPER GEAR		2
60			
61			
62			
63	SCREW	BHT 3x10 T2 8 PH	29
64	SCREW	BHT 3x8 T2	47
65	SCREW	BHT 3x10 T2	8
66	SCREW	BHT 3x12 T2 8 PH	1
67	SCREW	BHT 4x10 T3	5
68	SCREW	BHT 3x10 T2 8 PH	11
69	SCREW	BHT 3x10 T2 10 PH	1
70	SCREW	BHT 3x10 T2 20 PH	2

CDP MECHA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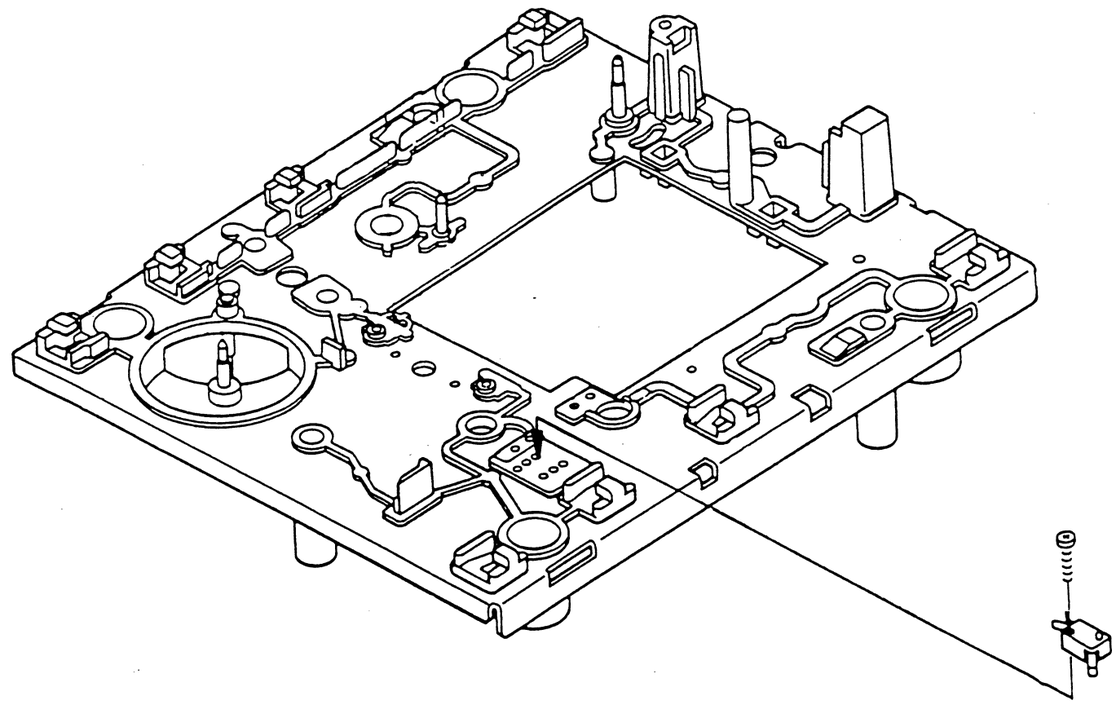
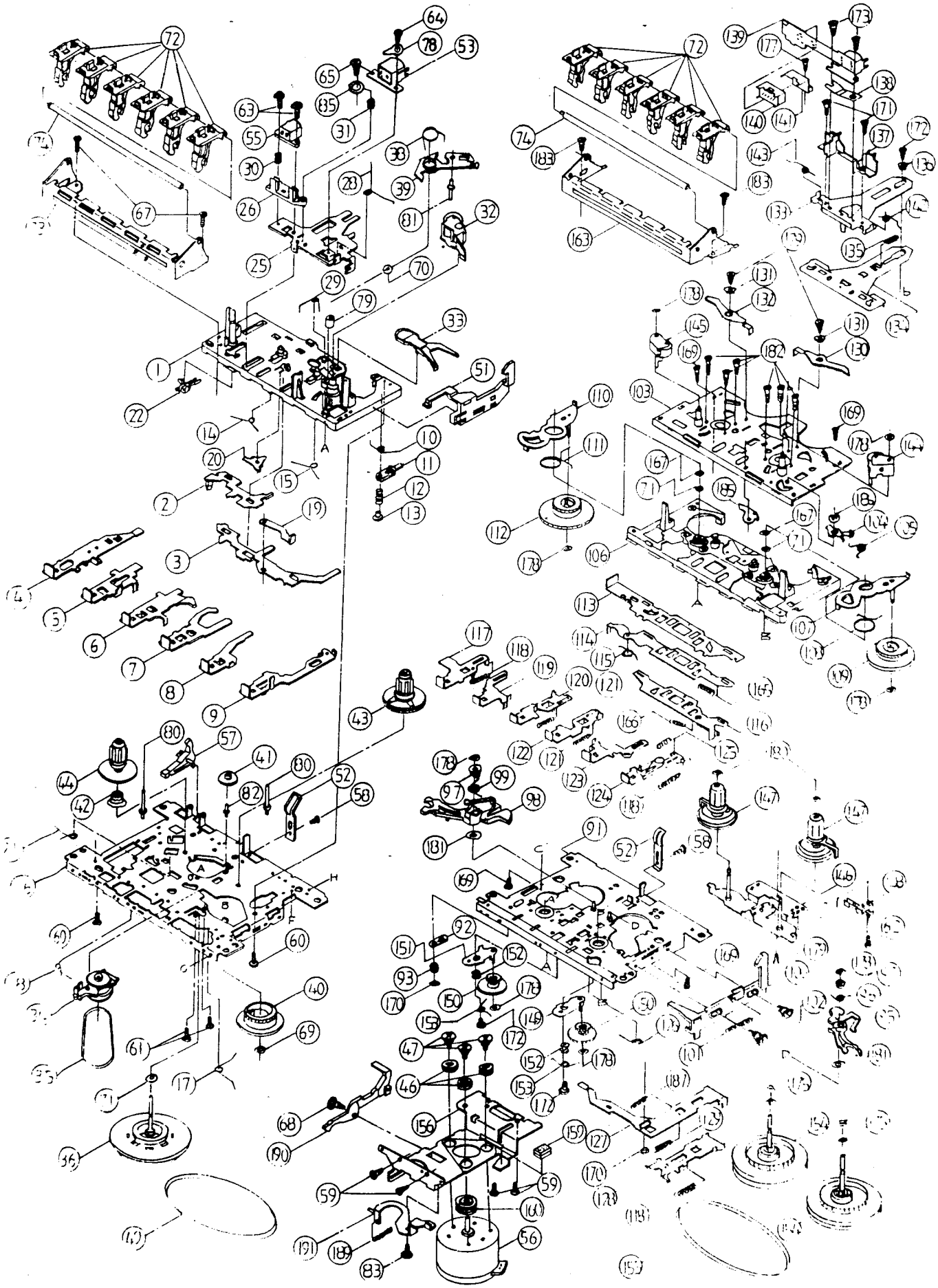


MECHANISM PARTS LIST(CD86F2A)

NO.	PARTS NO.	DESCRIPTION	Q'TY
	141-2-4729-0710-00	WIRE BAND	2
1	1EA-0-A41A-0150-0	PICK UP ASSY(SF-90NFK)	1
2	4-2312-0701-00	LEVER SW 1PIT	1
3	4-2319-7417-00	LEAF SW	1
4	4-5279-7176-10	MOTOR	1
5	4-5279-7182-00	SPINDLE MOTOR	1
6	131-2-4201-2820-10	SCREW(B TITE SEMS)	2
7	131-2-4201-2830-00	SCREW(B TITE SEMS)Z	1
8	141-0-3119-2860-00	CHASSIS ASSY	1
9	141-0-3129-0310-00	CHASSIS SUB ASSY	1
10	141-0-5229-0030-00	TURNTABLE ASSY	1
11	141-0-5229-0030-00	TURNTABLE ASSY	1
12	141-0-8619-0030-00	MAGNET ASSY	1
13	141-2-1149-6470-20	TABLE LOAD	1
14	141-2-1149-6480-00	TABLE CD	1
15	141-2-3519-8380-00	HOLDER DISK	1
16	141-2-4219-4270-00	SCREW WASHER	2
17	141-2-4459-5130-00	PAD DISK(FELT)	4
18	141-2-5519-8180-00	WASHER	2
19	141-2-5519-8180-00	GEAR PICK UP	1
20	141-2-5519-8190-00	GEAR MOTOR	1
21	141-2-5519-8220-00	GEAR TABLE LOAD	1
22	141-2-5519-8230-00	GEAR PICK UP RACK	1
23	141-2-5519-8780-00	GEAR LOAD UP	1
24	141-2-5519-8790-00	GEAR LOAD T.L	1
25	141-2-5519-8800-00	GEAR	1
26	141-2-5649-3360-00	BELT	1
27	141-2-6229-0200-00	FLAP DISK CRAMP	1
28	141-2-6619-0860-00	PULLEY	1
29	141-2-7429-1220-00	LEVER HOLD DISK L	1
30	141-2-7429-1230-00	LEVER HOLD DISK R	1
31	141-2-7519-8830-00	SHAFT PICK UP	2
32	141-2-7519-8840-00	SHAFT GEAR S	1
33	141-2-7519-9120-00	SHAFT PULLEY	1
34	141-2-8529-5290-00	SPRING LEVER LEFT	1
35	141-2-8529-5300-00	SPRING LEVER RIGHT	1
36	141-2-8549-4380-00	SPRING FLAP DISK CR	1
37	141-2-8549-4390-00	SPRING ARM	1
	141-2-5229-0130-00	TURNTABLE	1
	141-2-4219-3670-00	SET SCREW V CONE 2+4	1
51	SE3FN205R0SA-	SCR FLT PCS 2×5	2
52	SE3PN173R0SM-	SCR PAN PCS 1.7×3	4
53	SFBAN26140SE-	SCR S-TPG BRZ 2.6×14	3
54	SFBAN306R0SE-	SCR S-TPG BRZ 3×6	1
55	SFBPN206R0SE-	SCR STPG PAN 2×6	1
56	ST3PN17100SM-	SCR TPG PAN 1.7×10	1

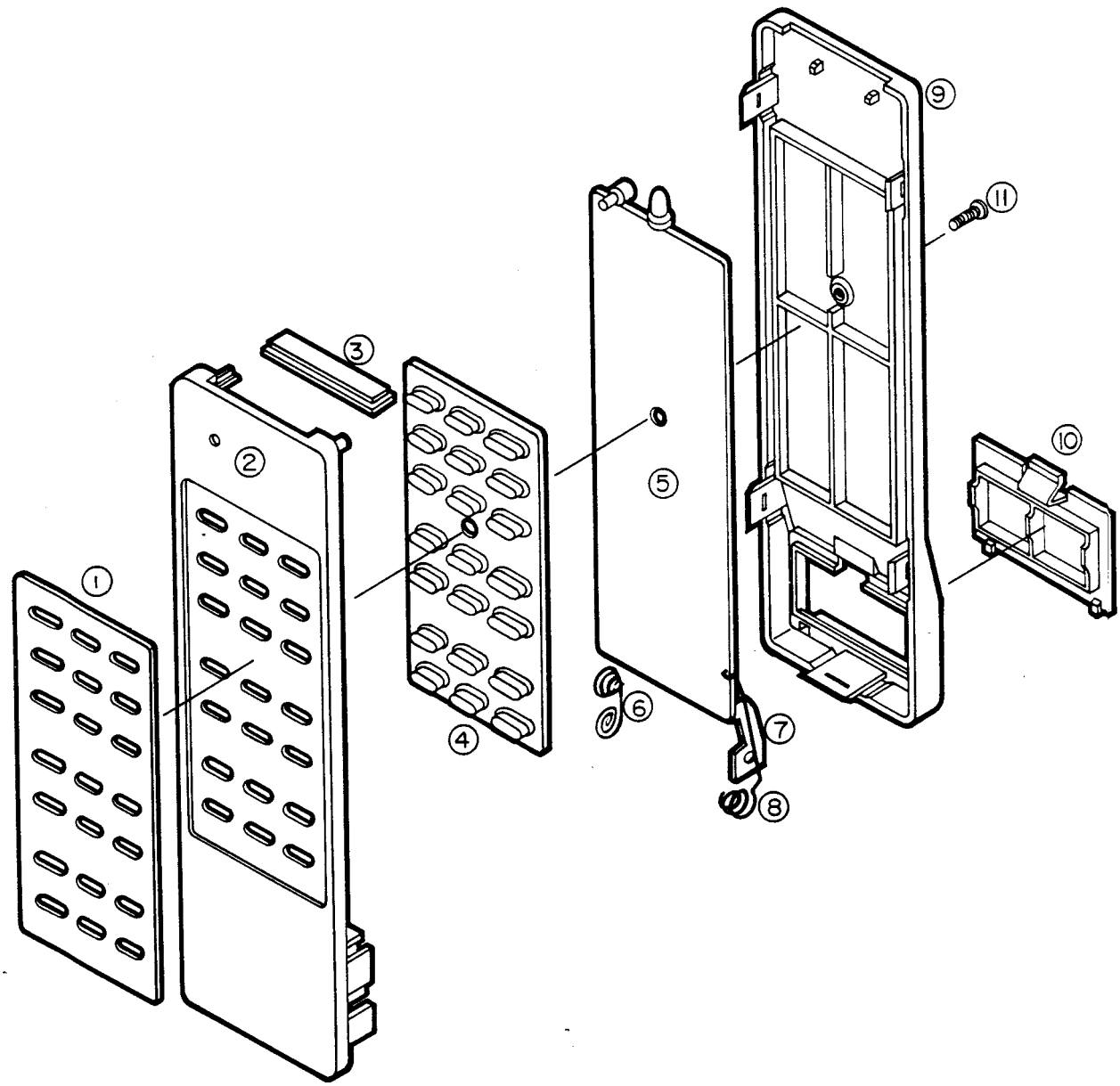
CASSETTE MECHA



NO	DESCRIPTION	PART NO	Q'TY
1	SUB CHASSIS	1-0802-201	1
2	SWITCH ACTUATOR	1-0802-105	1
3	LOCK PLATE	1-0802-104	1
4	REC BUTTON LEVER(F)	1-0802-106	1
5	PLAY BUTTON LEVER(F)	1-0802-107	1
6	REW BUTTON LEVER(F)	1-0802-108	1
7	FF BUTTON LEVER(F)	1-0802-109	1
8	STOP BUTTON LEVER(F)	1-0802-110	1
9	PAUSE BUTTON LEVER(F)	1-0802-111	1
10	AUTO OFF SPG	1-0802-401	1
11	PAUSE ARM	1-0802-209	1
12	PAUSE ARM SPG	1-0802-402	1
13	PAUSE CAP	1-0802-224	1
14	LEVER SPG(A)	1-0802-403	1
15	LEVER SPG(B)	1-0802-404	1
16	CHASSIS	1-0802-101	1
17	LOCK PLATE SPG	1-0802-405	1
18	PLAY SPG	1-0802-406	1
19	LOCK PLATE LINK	1-0802-119	1
20	PLAY LINK	1-0802-120	1
21	REC SPG	1-0802-407	1
22	LEAF SWITCH	MSW-1541 ACV	1
23	MUTE SWITCH	MSW-17821 MPDO	1
24	HEAD PANEL S	1-0802-102	1
25	HEAD PANEL L	1-0802-103	1
26	HEAD BLOCK	1-0802-205	1
27	TAPE GUIDE	1-0802-206	1
28	PINCH ROLLER SPG	1-0802-408	1
29	SHUT OFF SPG	1-0802-409	1
30	E HEAD SPG	1-0202-410	1
31	AZIMUTH SPG	1-0802-410	1
32	PINCH ROLLER ARM ASS'Y	3-0802-210	1
	1)PINCH ROLLER ARM(B)	1-0802-210	1
	2)PINCH ROLLER	1-0802-561	1
	3)PINCH ROLLER SHAFT(ø1.5x10)	1-0202-302	1
33	SHUT OFF LEVER	1-0802-204	1
34	CENTER CLUTCH ASS'Y	3-0802-214	1
	1)FELT BASE	1-0802-215	1
	2)CLUTCH FELT(A)(18x3.5x0.8)	1-0802-571	1
	3)CENTER PULLEY	1-0802-211	1
	4)CENTER CLUTCH SPG	1-0802-411	1
	5)SPG STOPPER	1-0802-212	1
	6)CENTER GEAR SHAFT	1-0802-301	1
	7)CENTER GEAR	1-0802-213	1
	8)CENTER ARM	1-0802-214	1
	9)P WASHER(1.6x4.0x0.2)	1-0202-532	1
35	SUB BELT(ø34.7x1.0	1-0202-556	1
36	FLY WHEEL ASS'Y(A)	3-0802-216	1
	1)FLY WHEEL PLATE	1-0802-124	1
	2)FLY WHEEL PULLEY(A)	1-0802-216	1
	3)CAPSTAN(1.8x30)	1-0802-302	1
	4)FLY WHEEL GEAR	1-0802-218	1
38	FWD BASE SPG	1-0802-412	1
39	FWD BASE	1-0802-118	1
40	FWD IDLER GEAR	1-0802-207	1
41	FF GEAR	1-0802-208	1
42	BACK TENSION SPG	1-0802-413	1
43	TAKE UP REEL ASS'Y	3-0802-221	1
	1)REEL CAP	1-0802-219	1
	2)AUTO SENSOR	1-0802-223	1
	3)REEL CLUTCH SPG	1-0802-414	1
	4)FWD GEAR	1-0802-221	1
	5)CLUTCH FELT(B)	1-0802-572	1
	6)REEL GEAR	1-0802-220	1
	7)REEL STOPPER	1-0802-222	1
44	SUPPLY REEL ASS'Y	3-0802-222	1
	1)REEL CAP	1-0802-219	1
	2)REEL GEAR	1-0802-220	1
	3)REEL STOPPER	1-0802-222	1
46	MOTOR RUBBER	1-0202-562	3
47	MOTOR COLLAR SCREW(M2.6x3.7)	1-0202-503	3
49	MAIN BELT(B)	1-0852-551	1
51	EJECT LEVER(F)	1-0802-202	1
52	PACK SPG(F)	1-0202-138	2
53	R/P HEAD	MS 15RAA2N1	1
55	E HEAD	LE15A	1
56	MOTOR	EG-530YD2B	1
57	REC SAFETY LEVER	1-0202-221	1
58	C TAPPING SCREW(M2x3)	1-0202-507	2
59	C TAPPING SCREW(M2x4)	1-0202-508	4
60	P TAPPING BIND SCREW(M2x5)	1-0202-509	2
61	TAPPING SCREW(FOR CAMEAR) (M2x4.5)	1-0802-501	2
62	TAPPING SCREW(M2x6)	1-0202-511	1
63	+ − CAP SCREW(M2x8)	1-0202-518	2
	+ − CAP SCREW(M2x7.5)	1-0202-519	
64	+ BIND SCREW(M2x3)	1-0802-502	1
65	AZIMUTH SCREW(M2x7)	1-0202-514	1
67	S TAPPING SCREW(FOR CAMERA) (M2x8)	1-0802-504	2
68	P K COLLAR SCREW(B) (M2x6.1)	1-W202-506	1
69	P WASHER CUT(1.2x3.8x0.4)	1-0802-531	1
70	P WASHER CUT(1.5x4.0x0.4)	1-0802-532	1
71	P WASHER(2x3.5x0.3)	1-0802-533	3
72	OPERATION LEVER	1-0202-223	12
73	BUTTON FRAME	1-0802-126	1
74	BUTTON LEVER SHAFT(S)	1-0202-309	2
78	LUG PLATE	1-0202-150	1
79	CAPSTAN METAL(1.8x4.5x9)	1-0802-306	1
80	REEL SHAFT(1.5x14.4)	1-0802-303	2
81	FWD BASE SHAFT	1-0802-304	1
82	FF GEAR SHAFT	1-0802-305	1
83	P K COLLAR SCREW(A) (M2x3.4)	1-W202-506	1
84	E-HEAD BASE(M G ARM)	1-0802-227	1
85	FLAT WASHER	1-0202-151	1
86	REC SPRING PLATE	1-0202-139	1
87	REC SWITCH BRACKET	1-0802-125	
88	REC SWITCH	MSW-0094-NBK	1
89	METAL SWIT		
91	CHASSIS ASS'Y	3-0805-101	1
	1)CHASSIS	1-0805-101	1
	2)AUTO STOP SHAFT	1-0805-301	2
	3)PAUSE LEVER SHAFT	1-0805-302	1
	4)RELAY PLATE SHAFT	1-0805-303	1
92	PAUSE LEVER	1-0805-201	1
93	PAUSE LEVER SPRING	1-0805-401	1
95	AUTO LEVER F	1-0805-202	1
96	AUTO LEVER F SPRING	1-0805-402	1
97	SPRING STOPPER	1-0805-203	2
98	AUTO LEVER R	1-0805-204	1
99	AUTO LEVER R SPRING	1-0805-403	1
100	EJECT SLIDE LEVER(F)	1-0805-205	1
101	EJECT SLIDE LEVER SPRING	1-0805-404	1
102	P KICK COLLER SCREW(A)	1-0805-509	2
103	SUB CHASSIS ASS'Y	3-0805-102	1
	1)SUB CHASSIS	1-0805-102	1
	2)PINCH ROLLER ARM SHAFT	1-0805-304	2
	3)TURN OVER SHAFT	1-0805-305	1
104	TURN OVER ARM	1-0805-103	1
105	TURN OVER SPRING	1-0805-405	1
106	BUTTON BASE ASS'Y	3-0805-207	1
	1)BUTTON BASE	1-0805-207	1
	2)METAL	1-0805-306	2
107	T GEAR ARM F ASS'Y	3-0805-104	1
	1)T GEAR ARM F	1-0805-104	1
	2)T GEAR SHAFT	1-0805-307	1

NO	DESCRIPTION	PART NO	Q'TY
108	T GEAR ARM F SPRING	1-0805-406	1
109	T CAM GEAR F	1-0805-208	1
110	T GEAR ARM R ASS'Y	3-0805-105	1
	1)T GEAR ARM R	1-0805-105	1
	2)T GEAR SHAFT	1-0805-307	1
111	T GEAR ARM R SPRING	1-0805-407	1
112	T CAM GEAR R	1-0805-209	1
113	SLIDE PLATE	1-0805-106	1
114	LOCK ACTUATOR ASS'Y	3-0805-107	1
	1)LOCK ACTUATOR	1-0805-107	1
	2)LOCK RELEASE PLATE	1-0805-108	1
	3)RELEASE PLATE SHAFT	1-0805-308	1
115	LOCK RELEASE SPRING	1-0805-408	1
116	S/W ACTUATOR ASS'Y	3-0805-109	1
	1)S/W ACTUATOR	1-0805-109	1
	2)EJECT KICK ARM	1-0805-110	1
	3)EJECT KICK ARM SHAFT	1-0805-315	1
117	MODE BUTTON LEVER(F) ASS'Y	3-0805-111	1
	1)MODE BUTTON LEVER(F)	1-0805-111	1
	2)PUASE PIN	1-0805-309	1
118	BUTTON LEVER SPRING	1-0805-409	3
119	PLAY BUTTON LEVER(F)	1-0805-113	1
120	FF BUTTON LEVER F(F)	1-0805-115	1
121	FF BUTTON LEVER R SPRING	1-0805-410	2
122	FF BUTTON LEVER R(F)	1-0805-117	1
123	STOP BUTTON LEVER(F)	1-0805-119	1
124	PROGRAM BUTTON LEVER(F) ASS'Y	3-0805-121	1
	1)PROGRAM BUTTON LEVER(F)	1-0805-121	1
	2)CHANGE PULL ARM	1-0805-123	1
	3)PULL ARM PIN	1-0805-310	1
	4)MTA PIN	1-0805-311	1
125	PULL ARM SPRING	1-0805-411	1
126	STOP BUTTON LEVER SPRING	1-0805-412	1
127	RELEASE PLATE	1-0805-124	1
128	FF S/W PLATE	1-0805-125	1
129	R C SPRING	1-0805-413	1
130	AUTO CONTROL ARM F	1-0805-126	1
131	CONTROL ARM COLLER	1-0805-316	2
132	AUTO CONTROL ARM R	1-0805-127	1
133	HEAD PANEL	1-0805-128	1
134	R C PLATE	1-0805-129	1
135	R C PLATE SPRING	1-0805-414	1
136	H P COLLER	1-0805-317	1
137	TAPE GUID	1-0805-210	1
138	HEAD SPRING PLATE	1-0805-130	1
139	P HEAD	BD24F	1
140	SLIDE S/W	R66-3-67	1
141	S/W BRACKET	1-0805-131	1
142	PINCH ROLLER SPRING F	1-0855-415	1
143	PINCH ROLLER SPRING R	1-0805-416	1
144	PINCH ROLLER F ASS'Y	3-0805-132	1
	1)PINCH ROLLER FLAME F	1-0805-132	1
	2)PINCH ROLLER(60R)	1-0805-561	1
	3)PINCH ROLLER PIN	1-0202-302	1
145	PINCH ROLLER R ASS'Y	3-0805-133	1
	1)PINCH ROLLER FLAME R	1-0805-133	1
	2)PINCH ROLLER(60R)	1-0805-561	1
	3)PINCH ROLLER PIN	1-0202-302	1
146	REEL PLATE ASS'Y	3-0805-134	1
	1)REEL PLATE	1-0805-134	1
	2)REEL SHAFT	1-0805-312	2
147	REEL ASS'Y	3-0805-211	2
	1)REEL SPRING PLATE	1-0805-211	2
	2)B T SPRING	1-0805-417	2
	3)T U CLUTCH SPRING M	1-0805-418	2
	4)SENSING PLATE	1-0805-212	2
	5)CLUTCH HOLDER	1-0805-213	2
	6)CLUTCH HOLDER FELT	1-0805-571	2
	7)T CULTCH GEAR M	1-0805-214	2
	8)T CULTCH FELT	1-0805-572	2
	9)FF CULTCH GEAR	1-0805-215	2
	10)FF CULTCH FELT	1-0805-573	2
	11)REEL DISK	1-0805-216	2
	12)TAFLON WASHER 6.4x9x0.2	1-0805-536	2
148	LEAF S/W	MSW-1290NBA	1
149	FF GEAR ARM F ASS'Y	3-0805-135	1
	1)FF GEAR ARM F	1-0805-135	1
	2)FF GEAR SHAFT	1-0805-313	1
150	FF GEAR	1-0805-217	2
151	FF GEAR ARM R ASS'Y	3-0805-136	1
	1)FF GEAR ARM R	1-0805-136	1
	2)FF GEAR SHAFT	1-0805-313	1
152	FF GEAR ARM COLLER	1-0805-318	2
153	FF GEAR ARM F SPRING	1-0805-419	2
154	FLYWHEEL ASS'Y	3-0805-218	2
	1)FLYWHEEL	1-0805-218	2
	2)FLYWHEEL CAP	1-0805-219	2
	3)FLYWHEEL GEAR	1-0805-220	2
	4)FLYWHEEL PLATE	1-0805-137	2
	5)CAPSTAN SHAFT	1-0805-314	2
155	MAIN BELT A	1-0805-551	1
156	MOTOR BRACKET(W)	1-0852-101	1
159	ANTI-VIBRATION FLIT	1-0805-574	1
160	MOTOR PULLEY(W)	1-0805-221	1
163	BUTTON FLAME	1-0805-139	1
165	LOCK ACTUATOR SPRING	1-0805-420	1
166	S/W ACTUATOR SPRING	1-0805-421	1
167	P WASHER 1.45x4x0.3	1-0805-531	2
169	P TAPPING SCREW M2x6	1-0805-501	4
170	P WASHER CUT 2.1x5x0.5	1-0805-532	1
171	+ TAMS SCREW M2x6	1-0805-502	2
172	CAMERA S TAPPING SCREW M1.7x4	1-0805-503	3
173	SCREW M2x5	1-0805-504	2
175	P WASHER 2x2.8x0.3	1-0805-533	2
177	CAMERA S TAPPING SCREW M1.7x2.5	1-0805-505	1
178	P WASHER CUT 1.2x3x0.25	1-0202-533	8
179	CAMERA S TAPPING M1.7x3	1-0805-506	3
180	P WASHER CUT 1.2x3x0.4	1-0805-534	2
181	P WASHER 3x8.5x0.13	1-0805-535	2
182	CAMERA S TAPPING SCREW M1.7x9	1-0805-507	6
183	CAMERA S TAPPING SCREW M2x9	1-0805-508	2
185	R C ARM	1-0805-140	1
186	E-RING ϕ 2 (22Z16060)	1-0805-581	1
187	BUTTON LEVER SPRING P	1-0805-422	1
189	P KICK LEVER SPRING	1-0852-401	1
190	P KICK LEVER B (MOLD)	1-0852-201	1
191	P KICK LEVER(PRESS)	1-0802-102	1

REMOCON MECHA



NO	DESCRIPTION	REMARKS	Q'TY
1	REMOCON SHEET		1
2	TOP CASE		1
3	WINDOW REMOCON		1
4	SILICON RUBBER		1
5	REMOCON PCB ASS'Y		1
6	BATTERY SPRING(A)		1
7	BATTERY SPRING(B)		1
8	BATTERY SPRING(C)		1
9	BOTTOM CASE		1
10	BATTERY COVER		1
11	SCREW		1

ELECTRICAL PARTS

TUNER

DESCRIPTION	SPECIFICATION	UNIT	REMARK
PCB	247X138	1	
I.C	KIA6043 or KIA2263	1	IC402
I.C	TC9309F-006	1	IC403
I.C	AN 7273	1	IC401
LCD DISPLAY	70020RSN	1	
T.R	C3195 or C2786Y	1	Q401
T.R	C3199Y or KSC2785Y	9	Q402,410,411,415,416,419, Q420,421,422
T.R	A1267 or KSA1175Y	3	Q404,405,409
T.R	C111MY or KSR1210	2	Q413,414
T.R	A107MY or KSR2206	1	Q407
T.R	C104MY or KSR1204	4	Q417,418,408,406
T.R	KSD 1021Y	1	Q412
DIODE	IN4148M	5	Q401,402,420,421,432
DIODE	IN4148	22	Q408,409,410,415,416,417,418, Q419,422,423,424,425,426,427, Q428,429,430,433,434,435,431, Q414
DIODE	MA27WA	1	D436
VRICAP DIODE	1SV 149	2	D406, 407
ANT TERMINAL	SC021058	1	BUILT IN ANT FM TERMINAL
B.P.F	BPMB8L	1	LF401
AM ANT COIL	KLA 2B 006/SLL01	1	T401
AM OSC COIL	KLO 2B004/SLL02	1	T406
FM DET(A)	KLI 3B013-G/SLF02	1	T409
FM DET(B)	KLI 3B014-G/SLF03	1	T410
AM IFT	KLI 2B101-G/SLA03	1	T411
LW ANT COIL	KLI1B002/SLL03	1	T402
LW ANT COIL	LO/SLL04	1	T405
LPF COIL	SLP 01(9C002S)	2	
TUNER	KEF-033AV or KHF201	1	
CERAMIC FILTER	FE107MSU-A	2	LF402,403
CERAMIC FILTER	FSFZ 450F	1	LF404
TRIMMER CAPACITOR	20P	2	VC402,403
CRYSTAL	7.2MHZ	1	X401
REMOCON SENSOR	USR 721	1	
PILOT LAMP	5V	1	LAMP402
PILOT LAMP	12V	1	LAMP401
SEMI VR	10K	1	SV401
STYROL CAPACITOR	102	1	C441
STYROL CAPACITOR	150	1	C418
STYROL CAPACITOR	470	1	C416
ELECT CAP	10/1000	1	C455
ELECT CAP	10/470	1	C456
ELECT CAP	10/100	3	C423,425,433
ELECT CAP	16/47	1	C438
ELECT CAP	10/22	1	C447
ELECT CAP	16/10	6	C421,432,436,437,453,454
ELECT CAP	50/4.7	1	C426
ELECT CAP	50/3.3	6	C439,440,444,446,448,449
ELECT CAP	50/1	2	C431,442
ELECT CAP	50/0.33	2	C451,452
CERAMIC CAP	8PF	1	C429
CERAMIC CAP	10PF	1	C417
CERAMIC CAP	12PF	1	C415
CERAMIC CAP	30PF	2	C460,461
CERAMIC CAP	47PF	2	C419,430
CERAMIC CAP	0.001UF	3	C413,450,458
CERAMIC CAP	0.01UF	2	C457,459
CERAMIC CAP	0.022UF	9	C410,411,420,422,424,427 C428,434,435
CERAMIC CAP	0.047UF	1	C414
MYLAR CAP	0.015UH	2	C443,445
RESISTOR	1/4W 220	2	R413,408
RESISTOR	1/4W 330	1	R411
RESISTOR	1/4W 470	3	R412,422,431
RESISTOR	1/6W 270	1	FTZ
RESISTOR	1/6W 560	1	R474
RESISTOR	1/4W 1K	3	R409,421,437
RESISTOR	1/6W 1K	3	R427,444,468
RESISTOR	1/6W 1.2K	2	R438,443
RESISTOR	1/4W 1.2K	1	R453
RESISTOR	1/4W 2.2K	4	R414,425,450,451
RESISTOR	1/6W 2.2K	1	R428
RESISTOR	1/4W 3.3K	4	R424
RESISTOR	1/6W 3.3K	2	R433,432
RESISTOR	1/4W 4.7K	4	R415,416,466,470
RESISTOR	1/6W 4.7K	2	R436,442
RESISTOR	1/4W 5.6K	3	R420,423,452
RESISTOR	1/6W 5.6K	1	R449
RESISTOR	1/6W 6.8K	1	R429
RESISTOR	1/6W 8.2K	2	R455,456
RESISTOR	1/4W 10K	5	R410,446,457,458,467
RESISTOR	1/6W 10K	4	R447,448,459,461
RESISTOR	1/6W 12K	2	R435,439
RESISTOR	1/4W 47K	4	R417,418,454,469
RESISTOR	1/6W 47K	1	R426
RESISTOR	1/4W 56K	1	R419
RESISTOR	1/4W 100K	3	R463,464,465
RESISTOR	1/6W 100K	2	R445,473
RESISTOR	1/4W 220K	2	R471,472
RESISTOR	1/6W 220K	1	R430
RESISTOR	1/6W 470K	2	R441,440
WAFER	2MM 4P	1	CN04
WAFER	2.5MM 4P	1	CN01
WAFER	2MM 6P	2	CN05,07
WAFER	2MM 8P	1	CN03
FLAT WIRE ASS'Y	05-200-H KW4	1	CN01
FLAT WIRE ASS'Y	05-300-H UY5	1	CN02
FLAT WIRE ASS'Y	B-350-H UY5	1	CN06
JUMP WIRE	5MM	11	
JUMP WIRE	10MM	53	
LCD FILTER	PVC 1.0T	1	
LCD CASE	ABS	1	
SCREW	BH 3X8 T2	1	

DECK ASS'Y

DECK MECHANISM	SM300ADSY1 or TS802	1	
FLAT WIRE ASS'Y	05-400-H YP4	1	CN17
FLAT WIRE ASS'Y	05-200-H LE6	1	CN18
SHIELD WIRE	05-250-H RY1	1	CN21
SHIELD WIRE	05-300-H GRY5	1	CN22
SHIELD WIRE	05-250-H GRY3	2	CN23
WIRE	05-200-05 U1	1	

DESCRIPTION	SPECIFICATION	UNIT	REMARK
WIRE	05-200-05 01	1	
WIRE	05-100-05 Y1	1	
WIRE	T-130-T K1	1	
	MAIN		
PCB	197 x 197	1	
DIODE	IN5402	4	D217.218.219,220
DIODE	IN4002	1	D221
DIODE	IN4148M	8	D202.204.206,207,213,214,216, D222
DIODE	IN4148	6	D210.203.205,209.211,212
ZENER	12V/0.5W	1	D201.
RELAY	HR-CR323 DC24V	1	
RCA JACK	J40200280N	1	
SPEAKER TERMINAL	P-40420450P	1	
I.C	MC4558C	2	IC201.205
I.C	TC9164N	1	IC202
I.C	BA3416	1	IC203
I.C	UPC 1330HA	1	IC204
I.C	MC7815	1	IC206
I.C	MC7915	1	IC207
I.C	MC7805	1	IC208
T.R	KSC 2785Y	11	Q201.203.206.207,232,233.241 Q242.243,244,253
T.R	KSC 945CY	5	Q225.226.234,248,255
T.R	KSC733CY	2	Q251.237
T.R	A1267Y or KSA1175Y	3	Q202.238,252
T.R	KSC2316Y	3	Q230.245,254
T.R	KSA916Y	4	Q229.235.247,250
T.R	D2059Y or TIP41C	2	Q231,246
T.R	B1367Y or TIP42C	2	Q236.249
T.R	A111M or KSR2210	1	Q239
T.R	A107M or KSR2206	4	Q224,240,256,257
T.R	C111M or KSR 1210	5	Q208.209.210,217,218
T.R	C104MY or KSR1204	13	Q204.205.211,212,213,214,215 Q216.219,220,221,222,223
OSC COIL	SLD 01/8C004G	1	T202
INDUCTOR	27MH	2	L201.202
INDUCTOR	2.7MH	2	L203.204
SBMI VR	2.2K	1	SV204
SEMI VR	5K	1	SV205
SEMI VR	10K	1	SV203
SEMI VR	100K	3	SV201,202,206
ELECT CAP	50/4700	1	C306
ELECT CAP	50/3300	1	C305
ELECT CAP	10/100	3	C231,242,247
ELECT CAP	16/100	1	C314
ELECT CAP	50/47	1	C307
ELECT CAP	16/47	3	C243,279,316
ELECT CAP	10/47	4	C220,276,292,293
ELECT CAP	35/22	1	C301
ELECT CAP	16/22	5	C226,244,250,286,289
ELECT CAP	50/10	14	C209,215,217,218,219,232,233, C234,260,261,296,298,302,317
ELECT CAP	50/4.7	8	C207,208,228,229,249,268,269 C297
ELECT CAP	50/3.3	1	C223
ELECT CAP	50/2.2	9	C212,216,221,227,230,283,284 C285,288
ELECT CAP	50/1	2	C251,246
CERAMIC CAP	3P	2	C295,300
CERAMIC CAP	47P	1	C222
CERAMIC CAP	82P	2	C252,254

DESCRIPTION	SPECIFICATION	UNIT	REMARK
CERAMIC CAP	100P	10	C201,202,203,204.275,277,290 C291,294,299
CERAMIC CAP	0.0047	2	C321,322
CERAMIC CAP	560P	3	C225,235,236
CERAMIC CAP	0.001u	7	C205,206,224,253.255.318,319
CERAMIC CAP	0.022u	3	C308,309,310
CERAMIC CAP	0.0012u	4	C239.240,237,238
MYLAR CAP	0.0068	4	C211,214,258,259
MYLAR CAP	0.012	2	C272.273
MYLAR CAP	0.015	2	C270.271
MYLAR CAP	0.022	6	C245.210.213.303.304.315
MYLAR CAP	0.018	4	C256.257,264,265
MYLAR CAP	0.033	2	C241.248
MYLAR CAP	0.0047	3	C281.280,278
MYLAR CAP	0.047	2	C266.267
MYLAR CAP(P.P)	0.012(DT123	1	C274
RESISTOR	1/6W 10	1	R258
RESISTOR	1/4W 10	1	R259
RESISTOR	1/4W 15	1	R282
RESISTOR	1/6W 15	1	R281
RESISTOR	1/6W 22	2	R260.261
RESISTOR	1/4W 27	2	R283.284
RESISTOR	1/4W 47	1	R367
RESISTOR	1/4W 82	1	R323
RESISTOR	1/6W 82	1	R344
RESISTOR	1/4W 100	6	R213.219,220,221.288.294
RESISTOR	1/6W 120	2	R293.306
RESISTOR	1/4W 220	2	R211,216
RESISTOR	1/6W 220	1	R225
RESISTOR	1/4W 270	1	R233
RESISTOR	1/6W 330	3	R277,327,347
RESISTOR	1/6W 390	2	R266.363
RESISTOR	1/4W 470	1	R224
RESISTOR	1/6W 470	2	R320,375
RESISTOR	1/4W 680	2	R236,242
RESISTOR	1/6W 680	3	R290,305,369
RESISTOR	1/6W 820	1	R368
RESISTOR	1/6W 1K	4	R298,302,325,345
RESISTOR	1/6W 1.2K	2	R315,317
RESISTOR	1/4W 2.2K	15	R232,241,244,250.269.270.271, R272,285,289,291,303.321,312 R253,232
RESISTOR	1/6W 2.2K	5	R205.206,222,324,348
RESISTOR	1/6W 2.7K	2	R297,301
RESISTOR	1/4W 3.3K	1	R352
RESISTOR	1/6W 3.3K	5	R326,331,333,346.354
RESISTOR	1/4W 3.9K	2	R267,318
RESISTOR	1/6W 3.9K	1	R268
RESISTOR	1/4W 4.7K	8	R201,202,203,204.237.243,27 R252
RESISTOR	1/6W 4.7K	3	R230,255,364
RESISTOR	1/4W 6.8K	1	R360
RESISTOR	1/6W 6.8K	4	R319,334,341,361
RESISTOR	1/4W 10K	2	R254,371
RESISTOR	1/6W 10K	5	R275,276,278,307,370
RESISTOR	1/4W 12K	2	R215,218
RESISTOR	1/4W 15K	1	R228
RESISTOR	1/6W 15K	2	R312,338
RESISTOR	1/4W 18K	2	R336,356
RESISTOR	1/4W 22K	1	R229
RESISTOR	1/6W 22K	8	R263,279,280,295,299.311,33, R362
RESISTOR	1/4W 33K	4	R262,273,274,357
RESISTOR	1/4W 39K	1	R231

DESCRIPTION	SPECIFICATION	UNIT	REMARK
RESISTOR	1/4W 47K	7	R223,238,239,245,292,304,313
RESISTOR	1/6W 47K	7	R212,227,246,314,316,322,343
RESISTOR	1/6W 56K	2	R209,210
RESISTOR	1/4W 100K	8	R248,251,256,257,264,286,287 R339
RESISTOR	1/6W 100K	3	R226,249,265
RESISTOR	1/4W 150K	1	R372
RESISTOR	1/4W 180K	3	R214,217,340
RESISTOR	1/6W 220K	2	R207,208
RESISTOR	1/4W 470K	1	R235
RESISTOR	1/6W 470K	1	R240
METAL OXIDE	1W 0.22	2	R332,353
METAL OXIDE	2W 0.27	4	R329,330,350,351
METAL OXIDE	2W 47	1	R366
METAL OXIDE	1/4W10	4	R337,355,373,374
METAL OXIDE	1/2W 270	2	R328,349
METAL OXIDE	1/4W 1	1	R375
PIN SQ		5	
JUMP WIRE	5MM	17	
JUMP WIRE	10MM	59	
WAFER	2.5MM 2P	1	CN21
WAFER	2MM 3P	2	CN13, CD 1N
WAFER	2.5MM 3P	1	CN23
WAFER	2MM 4P	4	CN12,17,19,20
WAFER	2.5MM 4P	1	CN08
WAFER	2MM 5P	1	CN06
WAFER	2.5MM 5P	3	CN02,14,25
WAFER	2MM 6P	1	CN18
WAFER	2MM 7P	1	CN24
FLAT WIRE ASS'Y	05-230-H GY3	1	CN15
SHIELD ASS'Y	B-380-H RU5	1	PHONO
WIRE	05-60-05-K1	1	
HEAT SINK	A	1	
HEAT SINK	B	1	
SCREW	BH 3X8T2	8	

REMOCON

I.C	TC9243F	1	I.C401
T.R	C3024Y or KSD1021Y	1	Q401
CERAMIC FILTER	BSB455EB	1	CF401
LED	SLV26	1	LD401
INFRAD LED		1	LD402
CERAMIC CAP	100P	2	C402,403
ELEC CAP	6.3/4.7	1	C401
RESISTOR	1/4W 270	1	R403
RESISTOR	1/4W 33	1	R401
RESISTOR	1/4W 6.8K	1	R402
P.C.B	121x46x1.6T	1	
SILICON RUBBER		1	
REMOCON SHEET	PC0.25T or PVC0.3T	1	
TOP CASE REMO	ABS BLK	1	
BOTTOM CASE REMO	ABS BLK	1	
BATTERY COVER	ABS BLK	1	
WINDOW REMOCON	ACRYL SMOG	1	
SCREW(BLK)	2.6x8 T1	1	
BATTERY SPRING	A	1	
BATTERY SPRING	B	1	
BATTERY SPRING	C	1	
WIRE	05-50-05	1	

SET ASS'Y

DESCRIPTION	SPECIFICATION	UNIT	REMARK
FRONT PANEL	HIPS 713	1	
CASSETTE HOLDER	HIPS 614	2	
PLAYER BASE	HIPS 713	1	
SIDE COVER(L.R)	HIPS 713	2	
LED INDICATOR	ACRYL	7	
WINDOW TUNER	ACRYL SMOG	1	
WINDOW E.Q	ACRYL SMOG	1	
DOOR WINDOW(L.R)	ACRYL SMOG	2	
DECK KNOB A	ABS BLK	10	
DECK KNOB B	ABS BLK	1	
TACT KNOB A	ABS BLK	4	POWER TUNING UP/DOWN BAND
TACT KNOB B	ABS BLK	3	MUTE. CLOCK. STEREO
PUSH KNOB A	ABS BLK	2	CrO_2 HI SPEED
PUSH KNOB B	ABS BLK	1	SURROUND
PRESET KNOB	ABS BLK	1	
FUNCTION KNOB	ABS BLK	1	
VOLUME KNOB	ABS BLK	1	
DOOR BASE(L.R)	ABS BLK	2	
ANT HOLDER	ABS BLK	1	
EJECT SPRING	SUS304	2	
VOLUME BKT	SECC 1.0T(68x27)	1	
SIDE BKT	SECC 1.0T(27x15)	4	
DECK KNOB BKT	SECC 1.0T(94x9)	2	
REAR CHASSIS	SECC 1.0T(337x50)	1	
BOTTOM CHASSIS	SECC 1.0T	1	
DUMPER GEAL	G-332	2	
FIBER	70x80x1T	1	
FELT	5x10 1T (BLK)	2	
CUSHION FOOT	7.5 PHI	1	
CODE PHUS	SNR-16	1	
BANDING WIRE	80MM	2	
SCREW (BLK)	BHT 3x10 T2 8 PHI	17	SIDE(L)8. SIDE(R)9
W/SCREW	BHT 3x10 T2 8 PHI	9	ANT2. SP-TER2. REAR5
W/SCREW	BHT 3x12 T2 8 PHI	1	ANT1
W/SCREW	BHT 3x10 T2 10 PHI	3	TUNER2. REAR1
W/SCREW	BHT 3x10 T2 20 PHI	2	PHONE1. MIC1
SCREW	BHT 3x8 T2	39	TUNING2. POWER BAND3. VR2. EQ.PCB6. SURROUND2. CrO_2 2.HI SPEED2. DECK6. BOTTOM6. DECK KNOB4. CAMPER 2.FUSE PCB2.
SCREW	BHT 3x10 T2	8	AUX2. SURROUND JACK2. CD+MAIN 2.MAIN PCB2
SCREW	BHT 4x10 T3	4	
TURN TABLE	HT-962PM	1	
DUST COVER		1	ACC
HINGE		2	
ADAPTOR	45RPM	1	
AM ANT		1	
FM ANT		1	
MANUAL		1	
W/CARD		1	
VINYL PLOY BAG	SET	1	
VINYL PLOY BAG	MANUAL	1	
SNOW PAD	TOP	1	
SNOW PAD	BOTTON	1	
STICKER	DANGER & COST	1	
STICKER	CLASS 1	1	
STICKER	SERIAL NO	2	
CARD	A	1	
CARD	B	1	
CARTON BOX		1	
SPEAKER		1	

DESCRIPTION	SPECIFICATION	UNIT	REMARK
SOLDER BAR		36	
SOLDER WIRE		25	
BOND		2	
LOCKING PAINT		0.1	
PARAPIN		0.5	
ALCHOL		0.5	
FLUX		10	
COM POUND		0.7	
OPP TAPE		8	
CD BODY	7030R	1	
	SUB		
PCB	197x247	1	
I.C	KIA3600 or KA2223	2	IC101.102
I.C	BA6124 or KA2284	2	IC103.104
I.C	TC9174P	1	IC106
I.C	TC9173P	1	IC105
MOTOR VR	RK16Y12MA-100 KBx2	1	VR106
SLIDE VR	RS20H123D-50KWx2	5	VR101,102.103,104,105
BALANC VR	RS20H 113D-100KB	1	VR107
T.R	KSC2785Y or C3199Y	4	Q101,102,107,108
T.R	KSR2206 or A107MY	5	Q103,104,110,111,227
T.R	KSR 1204 or C104MY	1	Q228
T.R	KSB 1116 or A950	2	Q106.109
DIODE	IN4148M	2	D102,104
DIODE	IN4148	4	D101,103,105,106
LED	SLV31VC3	8	LD101.102.103.104.105.201.202.VR
LED	SLV31DC3	10	LD106,107,108,109,110,111, LD112,113,114,115
TACT S/W	STS 1101	26	S101,102,104,105,106,107,108, S109,110,111,112,113,114,115, S116,117,118,119,120,121,122, S123,124,125,126,127
PUSH S/W	SPS 2208	3	S128,207,208
MIC JACK	HTJ064-04B	2	J201,202
RCA JACK	J40200280N	1	SURROUND
CERAMIC CAPP		2	C111, 122
CERAMIC CAP	0.047	3	C133,140,141
CERAMIC CAP	390P	2	C115,127
MYLAR CAP	0.0012	2	C114,126
MYLAR CAP	0.0039	2	C110,124
MYLAR CAP	0.0068	2	C116,128
MYLAR CAP	0.012	2	C108,144
MYLAR CAP	0.022	2	C113,125
MYLAR CAP	0.039	2	C104,118
MYLAR CAP	0.068	2	C109,123
ELECT CAP	50/0.22	2	C107,143
ELECT CAP	50/0.68	2	C103,117
ELECT CAP	50/2.2	2	C129,130
ELECT CAP	50/3.3	2	C101,102
ELECT CAP	50/10	5	C112,121,132,131,142
ELECT CAP	16/22	3	C106,119,145
ELECT CAP	10/47	3	C105,134,135
ELECT CAP	16/47	1	C120
ELECT CAP	10/100	1	C138
RESISTOR	1/4W 4.7	1	R133
RESISTOR	1/4W 47	2	R134,135
RESISTOR	1/4W 390	2	R103,138
RESISTOR	1/4W 470	2	R123,124
RESISTOR	1/4W 1K	3	R113,114,132

DESCRIPTION	SPECIFICATION	UNIT	REMARK
RESISTOR	1/4W 1.5K	7	R127,128,129,130.131.309,310
RESISTOR	1/4W 2.2K	1	R105
RESISTOR	1/6W 2.2K	1	R106
RESISTOR	1/4W 4.7K	4	R111,112.120.121
RESISTOR	1/6W 4.7K	2	R101,102
RESISTOR	1/4W 10K	4	R104,110.137.139
RESISTOR	1/6W 10K	2	R109.136
RESISTOR	1/4W 22K	1	R126
RESISTOR	1/4W 47K	2	R115.116
RESISTOR	1/4W 330K	2	R107,108
RESISTOR	1/2W 120	1	R308
RESISTOR	1/2W 270	2	R358.359
LUG TERMINAL	AC IN	2	
WAFER	PIN SQ	3	
WAFER	2MM 2P	2	CN 10 VRLED
WAFER	2MM 3P	1	CN11
WAFER	2MM 4P	1	CN26
WAFER	2MM 5P	1	CN25
WAFER	2MM 6P	1	CN09
SHIELD WIRE	B-270-H GRT3	1	CN13
FLAT WIRE	05-350-HOK1	1	CD INABLE
FLAT WIRE ASS'Y	B-400-H YG2	1	CN10
FLAT WIRE ASS'Y	H-220-H GB2	1	VR LED
FLAT WIRE ASS'Y	H-100-H GY3	1	CN11
FLAT WIRE ASS'Y	B-300-H YP4	1	CN04
FLAT WIRE ASS'Y	05-220-H YP4	1	CN08
FLAT WIRE ASS'Y	B-380-H YP4	1	CN12
FLAT WIRE ASS'Y	B-320-H RK4	1	CN19
FLAT WIRE ASS'Y	B-270-H UY4	1	CN20
FLAT WIRE ASS'Y	05-420-H KW5	1	CN14
FLAT WIRE ASS'Y	B-220-H GB5	1	CN25
FLAT WIRE ASS'Y	B-100-H RK4	1	CN26
FLAT WIRE ASS'Y	B-200-H BG6	1	CN05
FLAT WIRE ASS'Y	B-200-H UR6	1	CN07
FLAT WIRE ASS'Y	B-210-H BG7	1	CN24
FLAT WIRE ASS'Y	B-200-H BG8	1	CN03
WIRE	05-120-05 W1	1	A
WIRE	05-450-H0 R1	2	B. CD CABLE
WIRE	05-140-HO K1	1	C
WIRE	05-300-HO W1	1	D
WIRE	05-05-05 U1	1	MOTOR VR
WIRE	05-50-05 Y1	1	MOTOR VR
JUMP WIRE	5MM	13	
JUMP WIRE	10MM	18	
	POWER TRANS ASS'Y		
P.C.B	99x69x1.6T/	1	
TRANS FOMER	7030R 230	1	T201
FUSE HOLDER		4	
CERMIC CAP	473	1	
FUSE	3.15A/250V	2	
WAFER	2.5MM 3P	1	CN15
FLAR WIRE ASS'Y	05-400-H KW3	1	CN16
POWER CORD	KLP-419C	1	
RESISTOR	0.47	1	
POWER CORD	KLCE-2F	1	NESCO ONLY ACC

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
	CD		
I.C	LA 9210N	1	IC01
I.C	LC 7860K	1	IC02
I.C	LC 3517BS	1	IC03
I.C	LA 6531	2	IC04,05
I.C	LC5864H-90V1	1	IC06
I.C	MC7805	1	IC07
I.C	LC7881M	1	IC08
I.C	MC4558C	1	IC09
CRYSTAL	8.6436MHZ	1	X01
CRYSTAL FILTER	4.00MHZ	1	X02
DIODE SW	IN4148	12	D01,04,05,06,08.09,16-21
DIODE RECT	IN4002	4	D11-14
DIODE ZENER	ZD 7.5V	1	D15
T.R	KSA2210/A111M	6	Q15-20
TR	KSB564CY	1	Q01
T.R	KSC945CY	7	Q02,03,05,06,08.11,12
T.R	KSC2316CY	1	Q09
T.R	KSD73	1	Q04
RESISTOR	1/6W 10	3	R01,23,71
RESISTOR	1/6W 100	1	R70
RESISTOR	1/6W 220	4	R77,78,72,24
RESISTOR	1/6W 470	3	R52,81,82
RESISTOR	1/6W 560	1	R40
RESISTOR	1/6W 1K	5	R02,03,55,73,74
RESISTOR	1/6W 1.2K	2	R20,29
RESISTOR	1/6W 2.2K	2	R05,46
RESISTOR	1/6W 3.3K	1	R48
RESISTOR	1/6W 3.9K	1	R11
RESISTOR	1/6W 4.7K	3	R07,49,69
RESISTOR	1/6W 5.6K	3	R12,75,76
RESISTOR	1/6W 10K	8	R04,17,21,43,68.83,86.87
RESISTOR	1/6W 15K	2	R09,54
RESISTOR	1/6W 18K	1	R42
RESISTOR	1/6W 22K	4	R57,59,61,85
RESISTOR	1/6W 27K	7	R33,34,35,36,41,56,58
RESISTOR	1/6W 33K	6	R18,53,60,62,63.84
RESISTOR	1/6W 47K	1	R19
RESISTOR	1/6W 56K	3	R15,28,SV04
RESISTOR	1/6W 82K	1	R25
RESISTOR	1/6W 100K	3	R39,44,45
RESISTOR	1/6W 120K	2	R27,32
RESISTOR	1/6W 150K	3	R14,31,30
RESISTOR	1/6W 200K	1	R50
RESISTOR	1/6W 220K	2	R06,26
RESISTOR	1/6W 330K	1	R38
RESISTOR	1/6W 390K	2	R10,13
RESISTOR	1/6W 470K	2	R79,80
RESISTOR	1/6W 1M	1	R08,R22
RESISTOR	1/6W 3.3M	1	R16
ELECT CAP	50/1	5	C09,48,49,57,58
ELECT CAP	50/4.7	3	C63,64,70
ELECT CAP	16/10	1	C14
ELECT CAP	10/47	5	C01,04,08,13,25
ELECT CAP	10/100	5	C18,19,34,52,54
ELECT CAP	6.3/2200	1	C03
ELECT CAP	16/2200	1	C53
MYLAR CAP	50V 102	1	C32
MYLAR CAP	50V 332	1	C20
MYLAR CAP	50V 103	3	C05,35,37
MYLAR CAP	50V 183	1	C10
MYLAR CAP	50V 333	6	C12,15,23,27,29,36

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
MYLAR CAP	50V 683	3	C16,59,60
MYLAR CAP	50V 104	6	C07,17,30,45,46,47
CERAMIC CAP	2P	1	C40
CERAMIC CAP	12P	1	C41
CERAMIC CAP	27P	4	C43,44,71,72
CERAMIC CAP	100P	2	C06,22
CERAMIC CAP	220P	1	C31
CERAMIC CAP	330P	2	C28.38
CERAMIC CAP	102	1	C02
CERAMIC CAP	223	1	C56
CERAMIC CAP	473	1	C69
CONNECTOR ASS'Y	B2.5-H2.5-P12 200M/M	2	CON04.05
CONNECTOR ASS'Y	B2.5-H2.5-P7 150M/M	1	CON06
CONNECTOR ASS'Y	B2.5-H2.5-P2 200M/M	1	CON07
CONNECTUR ASS'Y	B2.5-H2.0-P3 250M/M	1	CON09
CONNECTUR ASS'Y	B2.5-H2.0-P6 350M/M	1	CON10
WAFER	6PIN 2.0M/M	1	W01
WAFER	8PIN 2.0M/M	1	W02
WAFER	9PIN 2.0M/M	1	W03
WAFER	12PIN 2.5M/M	2	W04.05
WAFER	7PIN 2.5M/M	1	W06
WAFER	2PIN 2.5M/M	1	W07
WAFER	3PIN 2.5M/M	1	W08
LCD DISPLAY	SLC60199RSN/CO	1	LCD01
PILOT LAMP	6.3V 80MA	1	LMP01
TEST PIN	1.2PHI	10	TP01-10
TECT S/W	4PIN	10	SW01-10
JUMP WIRE		1	
SEMI VR	5KB	1	SV02
SEMI VR	10KB	1	SV01
SEMI VR	20KB	1	SV05
SEMI VR	100KB	2	SV03, SV06
SEMI VR	500KB	1	SV07
CD MECHANICAL	CD862F2A/SF-90 NSY	1	
ASS'Y			
CD FRONT PANEL	HIPS713	1	
CD SIDE COVER	HIPS713	1	
OP/CL KNOB	HIPS713	1	
LCD COVER	HIPS713	1	
FOOT(F)	HIPS713	2	
FOOT(DECK)	ABS	4	
W/WINDOW	DARK GRAY	1	
LCD FILTER	PVC 1.0T	1	
FOOT (R)	RUBBER	2	
MAIN CHASSIS	SPCT 0.8	1	
SCREW	BH 3x8 T2	9	MAINPCB5. SWPCB4
SCREW(BLACK)	BH 3x10 T2	11	SIDE4, REAR3, FOOT4
SCREW	BH 3x8	2	LCD2
SCREW	BH 3x22	4	MECH4